# TOSHIBA

**DVD VIDEO RECORDER**

# DR420KU

*OWNER'S MANUAL*

**Owner's Record**

The model number and serial number are on the back of your DVD Recorder. Record these numbers in the spaces below. Refer to these numbers whenever you communicate with your Toshiba dealer about this DVD Recorder.

Model number:

Serial number:

# TOSHIBA

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# PRECAUTIONS

**WARNING:** TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.
APPARATUS SHALL NOT BE EXPOSED TO DRIPPING OR SPLASHING AND NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.

## CAUTION
### RISK OF ELECTRIC SHOCK DO NOT OPEN

**CAUTION:**
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
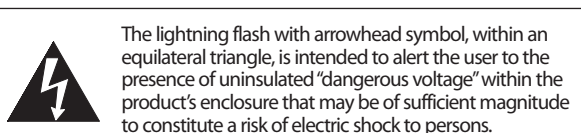
The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

The important note is located on the rear or bottom of the cabinet.

The symbol for CLASS ll (Double Insulation)

# IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacture's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

**Additional Safety Instructions**

15. Do not overload wall outlets; extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
16. Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
17. Keep your fingers well clear of the disc tray as it is closing. Neglecting to do so may cause serious personal injury.
18. Do not place a heavy object on or step on the apparatus. The object may fall, causing serious personal injury and serious damage to the apparatus.
19. Do not use a cracked , deformed, or repaired disc. These discs are easily broken and may cause serious personal injury and apparatus malfunction.
20. If the apparatus should smoke or smell, immediately disconnect the power cord from the wall outlet. Wait until the smoke or smell stops, then ask your dealer for a check and repair. Neglecting to do so may cause fire.
21. While it is thundering, do not touch the connecting cables or the apparatus.
22. Warning: To prevent the spread of fire, keep candles or other open flames away from this product at all times.

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# PRECAUTIONS

**FCC WARNING**

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

**RADIO-TV INTERFERENCE**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

**1)** Reorient or relocate the receiving antenna.
**2)** Increase the separation between the equipment and receiver.
**3)** Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
**4)** Consult the dealer or an experienced radio/TV technician for help.

**This Class B digital apparatus complies with Canadian ICES-003.**

**Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.**

Disconnect the mains plug to shut off when find trouble or not in use. The mains plug shall remain readily operable.

**CAUTION:** Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
**WARNING:** Batteries (Battery pack or battery installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

**LASER SAFETY**

This apparatus employs a laser. Only a qualified service person should remove the cover or attempt to service this apparatus, due to possible eye injury.

**CAUTION:** Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
**CAUTION:** Visible and invisible laser radiation when open and interlock defeated. Do not stare into beam.
**LOCATION:** Inside, near the deck mechanism.

**IMPORTANT COPYRIGHT INFORMATION**

Unauthorized copying, broadcasting, public performance and lending of discs are prohibited. This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

Do not place the unit on the furniture that is capable of being tilted by a child and an adult leaning, pulling, standing or climbing on it. A falling unit can cause serious injury or even death.

### To Avoid the Hazards of Electrical Shock and Fire

• Do not handle the power cord with wet hands.
• Do not pull on the power cord when disconnecting it from an AC outlet. Grasp it by the plug.
• Do not put your fingers or objects into the unit.

### Location and Handling

• Do not install the unit in direct sunlight, near strong magnetic fields, or in a place subject to dust or strong vibration.
• Avoid a place with drastic temperature changes.
• Install the unit in a horizontal and stable position. Do not place anything directly on top or bottom of the unit. Depending on your external devices, noise or disturbance of the picture and/or sound may be generated if the unit is placed too close to them. In this case, please ensure enough space between the external devices and the unit.
• Depending on the environment, the temperature of this unit may increase slightly. This is not a malfunction.
• Be sure to remove the disc and unplug the AC power cord from the outlet before carrying the unit.

Connections
Basic Setup
Disc Management
Recording
Playback
Editing
Function Setup
Others

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# PRECAUTIONS

**Dew Condensation Warning**

- Dew condensation may form inside the unit in the following conditions. If so, do not use this unit at least for a few hours until its inside gets dry.
  - The unit is moved from a cold place to a warm place.
  - Under conditions of high humidity.
  - After heating a cold room.

**Note about Recycling**

- This unit's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with your local recycling regulations.
- Batteries should never be thrown away or incinerated but disposed of in accordance with your local regulations concerning chemical wastes.

**Notice for Progressive Scan Output**

- Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. In case of picture problems with 525(480) progressive scan output, it is recommended that the user switch the connection to the 'standard definition' output. If there are questions regarding your TV set compatibility with this 525p(480p) DVD player, please contact Toshiba Customer Service.
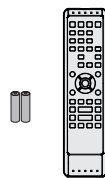
**Installation Location**
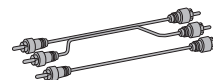
For safety and optimum performance of this unit:
- Install the unit in a horizontal and stable position. Do not place anything directly on top of the unit. Do not place the unit directly on top of the TV.
- Shield it from direct sunlight and keep it away from devices of intense heat. Avoid dusty or humid places. Avoid places with insufficient ventilation for proper heat dissipation. Do not block the ventilation holes on the sides of the unit. Avoid locations subject to strong vibration or strong magnetic fields.
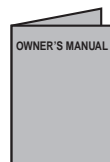
**Avoid the Hazards of Electrical Shock and Fire**

- If, by accident, water is spilled on this unit, unplug the power cord immediately and take the unit to our Authorized Service Center for servicing.

**About Copyright**

The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs and other materials, is prohibited under the copyright laws of the United States and other countries, and may subject you to civil and/or criminal liability.

**Note to CATV system installer**

This reminder is provided to call the cable TV system installer's attention to Article 820-40 of the National Electrical Code, which provides guidelines for proper grounding - in particular, specifying that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as possible.

**Supplied Accessories**

remote control with batteries (AAx2)

RCA audio/video cables

owner's manual

OWNER'S MANUAL

quick setup guide

return stop sheet

STOP

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# PRECAUTIONS

## Maintenance

### Servicing

- Please refer to relevant topics on "TROUBLESHOOTING" on pages 94-97 before returning the product.
- If you need to call a customer service representative, please know the model number and serial number of your product before you call. This information is displayed on the back of the product. Also, please take a moment to identify the problem you are having, and be prepared to explain this to the representative. If you believe the representative will need to help you with operations, please stay near the product. Our representatives will be happy to assist you.

### Cleaning the Cabinet

- Wipe the front panel and other exterior surfaces of the unit with a soft, slightly damp cloth.
- Never use a solvent, thinner, benzene or alcohol to clean the unit. Do not spray insecticide liquid near the unit. Such chemicals may discolor the surface or damage the unit.

### Cleaning Discs

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center to out. Do not wipe in a circular motion.
- Do not use solvents such as benzine, thinner, commercially available cleaners, detergent, abrasive cleaning agents or antistatic spray intended for analog records.

### Cleaning the Disc Lens

- If this unit still does not perform properly although you refer to the relevant sections and to "TROUBLESHOOTING" in this owner's manual, the laser optical pickup unit may be dirty. Consult your dealer or an Authorized Service Center for inspection and cleaning of the laser optical pickup unit.

### Disc Handling

- Handle the discs so that fingerprints and dust do not adhere to the surfaces of the discs.
- Always store the disc in its protective case when it is not used.

## IR Signal Check

If the remote control does not work properly, you can test if the remote control sends out the infrared signal with AM radio or a digital camera (including built-in camera of cellular phone). It will help to define the cause of malfunction.

- **With an AM radio:**
  Tune an AM radio to a station with no broadcasting. Press a button on remote control toward the radio. Sound will be fluttering when you press any key and the radio receives the signal. This means the remote control is working.
- **With a digital camera (including built-in camera of cellular phone):**
  Direct a digital camera to remote control, press and hold a button on remote control. If infrared light appears through digital camera, the remote control is working.

| | |
|---|---|
| **DOLBY** DIGITAL RECORDING | Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories. |

### Dolby Digital Recording

"Dolby® Digital Recording enables consumers to record high-quality video with stereo sound on recordable DVD discs. The technology, when utilized instead of PCM recording, also saves recordable disc space, allowing for higher video resolution or extended recording time on each DVD. DVDs created using Dolby Digital Recording will play back on all DVD-video players."
**Note:** This is true when the players are compatible with actual recordable DVD discs.

| | |
|---|---|
| **dts** Digital Out | Manufactured under license under U.S. Patent #: 5,451,942 & other U.S. and worldwide patents issued & pending. DTS and DTS Digital Out are registered trademarks and the DTS logos and Symbol are trademarks of DTS, Inc. ©1996-2008 DTS, Inc. All Rights Reserved. |

| | |
|---|---|
| **HDMI** HIGH-DEFINITION MULTIMEDIA INTERFACE | HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC. |

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# FEATURES

This unit not only plays back DVD and CD, but also offers features for you to record on DVD and edit them after that. The following features are offered with this unit.

## Recording

This unit is compatible with recording on DVD-RW/+RW which is recordable repeatedly and DVD-R/+R which accept the additional recordings until the disc becomes full but not overwritable. You can choose either one for your convenience.

**Up to 12 program recording:**
You can program the unit to record up to 12 programs, within a month in advance. Daily or weekly program recordings are also available.

**One-touch timer recording (OTR):**
You can easily set a recording time as you prefer. Every time [REC ●] is pressed during recording, the recording time will be increased by 30 minutes up to 8 hours. The recording automatically stops when the recording time you set is reached.

**DV dubbing:**
This function helps you to easily dub the contents of the DVC (digital video camcorder) to DVD.

**Left channel stereo recording:**
This unit can record the sound of the left channel monaural input as left and right channels automatically (the input from the L2 jacks only).

**Automatic chapter mark setting:**
Chapter marks will be put on recordings as you set before attempting to record.

**Automatic title menu making:**
The unit creates title menu automatically when finalizing discs.

**Automatic playlist making:**
The unit creates a playlist automatically after recording VR mode DVD-RW.

**Automatic title finalizing:**
For video mode DVD-RW/-R and DVD+R recording, you can finalize discs automatically after finishing all timer recordings or at the end of the disc space if you set this in the main menu.

## Playback

**Theater surround sound in your home:**
When connecting the unit to an amplifier or a decoder which is compatible with Dolby Digital or DTS, you can experience the theater surround sound from discs with surround sound system.

**Quick search for what you want to watch:**
You can easily find the part you want to watch using the search function. Search for a desired point on a disc by title, chapter/track or time.

**Virtual surround system:**
You can enjoy stereophonic space through your existing 2 channel stereo system.

**Playing back MP3/JPEG files:**
You can enjoy MP3/JPEG files which are recorded on CD-RW/-R.

## Editing

**Deleting titles:**
You can delete titles which you do not need anymore.

**Setting or clearing chapter marks:**
You can set or clear chapter marks on titles.

**Hiding chapters:**
To keep others from playing back some chapters without permission, you can hide chapters.

**Deleting parts of titles:**
You can delete a specific part of a title.

**Dividing or combining titles:**
You can divide or combine a title.

**Editing title names:**
You can change the title name you prefer.

## Compatibility

**Available for playing back discs on a regular DVD player:**
Recorded discs can be played back on regular DVD players, including computer DVD drives compatible with DVD-video playback. Although DVD+RW/+R are playable on other units without finalization in most cases, it is recommended to finalize in order to stabilize the performance.

## Others

**Progressive scan system**
Unlike conventional interlace scanning, the progressive scan system provides less flickering and images in higher resolution than that of traditional television signals.

**HDMI (High-Definition Multimedia Interface)**
You can enjoy clearer audio/video output when connecting this unit to a display device with an HDMI-compatible port.

## Symbols Used in this Owner's Manual

To specify for what disc type each function is, we put the following symbols at the beginning of each item to operate.

| Symbol | Description |
| --- | --- |
| **For Recording, Playing Back, and Editing** | |
| DVD -RW Video Mode | Description refers to DVD-RW in video mode |
| DVD -RW VR MODE | Description refers to DVD-RW in VR mode |
| DVD -R Video Mode | Description refers to DVD-R in video mode |
| DVD +RW | Description refers to DVD+RW |
| DVD +R | Description refers to DVD+R |
| **For Playback only** | |
| DVD Video | Description refers to DVD-video |
| CD | Description refers to audio CD |
| MP3 | Description refers to CD-RW/-R with MP3 files |
| JPEG | Description refers to CD-RW/-R with JPEG files |

If you do not find any of the symbols listed above under the function heading, the operation is applicable to all media.

# FEATURES

## Discs for Recording, Playing back

| Disc type | DVD-RW | | DVD-R | DVD+RW | DVD+R |
|---|---|---|---|---|---|
| Logo | DVD R W | | DVD R 4.7 | RW DVD+ReWritable | RW DVD+R |
| Format | Can be formatted in VR or video mode | | Automatically formatted in video mode | Automatically formatted in +VR mode | Automatically formatted in +VR mode |
| Icon | Video Mode<br>DVD -RW VIDEO MODE | VR Mode<br>DVD -RW VR MODE | DVD -R VIDEO MODE | DVD +RW | DVD +R |
| Maximum record time | 480 min (12cm)<br>144 min (8cm) | 480 min (12cm)<br>144 min (8cm) | 480 min (12cm)<br>144 min (8cm) | 480 min (12cm)<br>144 min (8cm) | 480 min (12cm)<br>144 min (8cm) |
| Disc Speed Versions | 1X-6X<br>Ver.1.1/ 1.2<br>Ver.1.1/ 1.2 CPRM compatible | | 1X-16X<br>Ver.2.0/ 2.1 | 1X-4X | 1X-16X |
| Compatibility | Playable on most DVD players. Finalization necessary. (title menu will be created) | Playable only on VR mode compatible unit. Finalization recommended. | Playable on most DVD players. Finalization necessary. (title menu will be created) | Playable on DVD+RW compatible players. Finalization recommended. (title menu will be created) | Playable on most DVD players. Finalization recommended. (title menu will be created) |

## Available Features

### Recording Features

| | DVD-RW | | DVD-R | DVD+RW | DVD+R |
|---|---|---|---|---|---|
| Record TV programs | ✓ | ✓ | ✓ | ✓ | ✓ |
| Reuse by deleting the current contents | ✓ | ✓ | | ✓ | |
| Record 16:9 size pictures | ✓ | ✓ | ✓ | | |
| Record copy-once programs | | ✓* | | | |
| Create chapters at fixed intervals (auto chapter) | ✓ | ✓ | ✓ | ✓ | ✓ |

### Editing Features

| | Playlist | Original | | | |
|---|---|---|---|---|---|
| Scene delete | ✓ | ✓ | | | |
| Edit title name | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Create chapters wherever you like (chapter mark) | ✓ | ✓ | | ✓ | ✓ |
| Divide a title | ✓ | | | ✓ | |
| Combine titles | ✓ | | | | |
| Hide chapters | | | | ✓ | ✓ |
| Delete a title | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Create a playlist | | ✓ | | | |
| Protect a title | | ✓ | | | |

✓: Available     Gray: Not available
*CPRM compatible disc only.

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| Discs for playing back | | | | |
|---|---|---|---|---|
| **Disc Type** | **DVD-VIDEO** | **CD-DA** | **CD-RW** | **CD-R** |
| **Logo** | DVD VIDEO | COMPACT disc DIGITAL AUDIO | COMPACT disc ReWritable / COMPACT disc DIGITAL AUDIO ReWritable | COMPACT disc Recordable / COMPACT disc DIGITAL AUDIO Recordable |
| **Icon** | DVD VIDEO | CD | CD | CD |

| Files for playing back | | |
|---|---|---|
| **Type of title** | **MP3** | **JPEG** |
| **Icon** | MP3 | JPEG |
| **Media** | CD-RW/-R | CD-RW/-R |

DVD is a trademark of DVD Format/Logo Licensing Corporation.

* This unit cannot play back the disc contents protected by Windows Media Digital Rights Management (DRM).

## Unplayable Discs

The following discs will not play back on this unit.
• CD-ROM  • Compact Disc-Interactive (CD-I)
• Video Single Disc (VSD) • DVD-ROM
• DVD-audio  • Unfinalized disc
• DVD-RW/-R recorded in non compatible recording format
• Blu-ray Disc  • HD DVD

On the following disc, the sound may not be heard.
• Super audio CD - Only the sound on the CD layer can be heard. The sound on the high-density super audio CD layer cannot be heard.

## Color Systems

DVD is recorded in different color systems throughout the world. The most common color system is NTSC (which is used primarily in the United States and Canada). This unit uses NTSC, so DVD you play back must be recorded in the NTSC system. You cannot play back DVD recorded in other color systems.

## Region Codes

This unit has been designed to play back DVD with region 1. DVD must be labeled for ALL regions or for region 1 in order to play back on the unit. You cannot play back DVD that are labeled for other regions. Look for the symbols on the right on your DVD. If these region symbols do not appear on your DVD, you cannot play back the DVD in this unit.

The number inside the globe refers to region of the world. A DVD labeled for a specific region can only play back on the unit with the same region code.

Following discs are recommended for good recording quality and are proven to be compatible with this unit. However, depending on the media condition, the unit may not read the disc properly.

Verbatim    DVD+R 8x, DVD+RW 4x, DVD-R 8x, DVD-RW 2x
JVC         DVD-RW 4x
Maxell      DVD+R 4x/8x/16x, DVD-R 8x/16x
SONY        DVD+R 4x/8x/16x, DVD+RW 4x
TDK         DVD+R 4x/8x/16x

Performance of any other discs are not guaranteed.

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• Toshiba is not liable for any damage or loss caused directly or indirectly by the malfunction of this recorder, including, without limitation, any one of the following:
  • Failure to record contents intended to be recorded by the consumer.
  • Failure to edit contents as intended by the consumer.
  • When a DVD-RW/-R, DVD+RW/+R disc created on this recorder is used (e.g., insertion, playback, recording or editing) in another DVD player, recorder or personal computer drive.
  • When a DVD-RW/-R, DVD+RW/+R disc that is used in the manner described in the immediately preceding bullet point is used again in this recorder.
  • When a DVD-RW/-R, DVD+RW/+R disc that was recorded in another DVD recorder, or in a personal computer drive is used in this recorder.
• Some functions may not work with personal computer discs.
• Discs recorded in this recorder may not operate as expected on other DVD players, recorders or personal computer drives.

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Because of problems and errors that can occur during the creation of DVD and CD software and/or the manufacture of DVD and CD discs, Toshiba cannot assure that this DVD Video Recorder will successfully play every disc bearing the DVD and CD logos. If you happen to experience any difficulty playing a DVD and/or CD disc on this DVD Video Recorder, please contact Toshiba Customer Service.

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DVD players with **RW COMPATIBLE** are capable of playing DVD-RW recorded in VR mode.

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# FUNCTIONAL OVERVIEW

## Front Panel

Connections

Basic Setup

Disc Management

Recording

Playback

Editing

Function Setup

Others
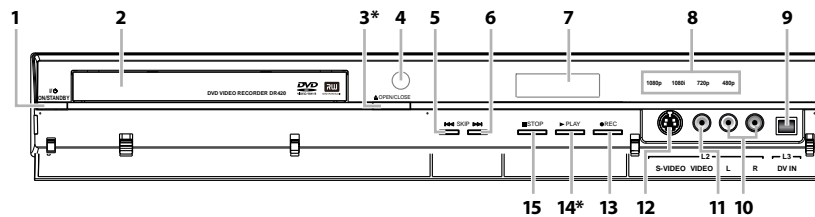
(*) The unit can also be turned on by pressing these buttons.

**1. I/ ⏻ ON/STANDBY button**
- Press to turn on the unit, or to turn the unit into the standby mode. (To completely shut down the unit, you must unplug the AC power cord.)
- If timer programmings have been set, press to turn the unit into the timer-standby mode.

**2. Disc tray**
- Place a disc when the disc tray is opened.

**3. ▲ OPEN/CLOSE button***
- Press to open or close the disc tray.

**4. Infrared sensor window**
- Receive signals from your remote control so that you can control the unit from a distance.

**5. SKIP |◀◀ button**
- During playback, press once midway through a chapter or track to go back to the beginning of the current chapter or track. When pressed twice in quick succession, playback will start from the preceding chapter or track.
- During playback, press and hold for 1.5 seconds to fast reverse.
- When playback is paused, press to play back reverse step by step.
- When playback is paused, press and hold for 1.5 seconds to slow reverse.

**6. SKIP ▶▶| button**
- During playback, press to skip to the next chapter or track.
- During playback, press and hold for 1.5 seconds to fast forward.
- When playback is paused, press to play back advance step by step.
- When playback is paused, press and hold for 1.5 seconds to slow forward.

**7. Display**
- Refer to "FRONT PANEL DISPLAY GUIDE" on page 17.

**8. HDMI indicator**
- Lights up and indicates the HDMI video resolution when HDMI output is on.

**9. DV IN jack (L3)**
- Use to connect the DV output of external device with a DV cable.

**10. AUDIO input jacks (L2)**
- Use to connect external device with an RCA audio cable.

**11. VIDEO input jack (L2)**
- Use to connect external device with an RCA video cable.

**12. S-VIDEO input jack (L2)**
- Use to connect the S-video output of external device with an S-video cable.

**13. ● REC button**
- Press once to start a recording. Press repeatedly to start one-touch timer recording.

**14. ▶ PLAY button***
- Press to start or resume playback.

**15. ■ STOP button**
- Press to stop playback or recording.

## Rear Panel
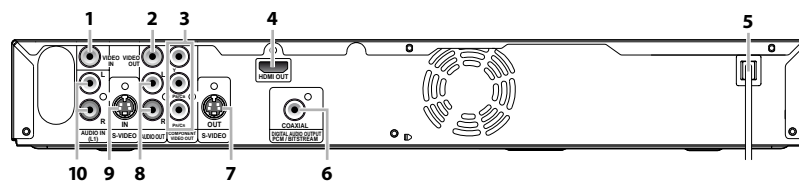
**1. VIDEO IN jack (L1)**
- Use to connect external device with an RCA video cable.

**2. VIDEO OUT jack**
- Use to connect a TV monitor, AV receiver or other device with an RCA video cable.

**3. COMPONENT VIDEO OUT jacks**
- Use to connect a TV monitor with component video inputs with a component video cable.

**4. HDMI OUT jack**
- Use an HDMI cable to connect to a display with an HDMI compatible port.

**5. AC Power Cord**
- Connect to a standard AC outlet to supply power to this unit.
- Unplug this cord from the AC outlet to completely shut down the unit.

**6. COAXIAL DIGITAL AUDIO OUTPUT jack**
- Use to connect an AV receiver, Dolby Digital decoder, DTS decoder or other device with a digital audio coaxial input jack with a digital audio coaxial cable.

**7. S-VIDEO OUT jack**
- Use to connect the S-video input of a TV monitor, AV receiver or other device with an S-video cable.

**8. AUDIO OUT jacks**
- Use to connect a TV monitor, AV receiver or other device with an RCA audio cable.

**9. S-VIDEO IN jack (L1)**
- Use to connect the S-video output of external device with an S-video cable.

**10. AUDIO IN jacks (L1)**
- Use to connect external device with an RCA audio cable.

### Note
- Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the unit.

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# FUNCTIONAL OVERVIEW

**Remote Control**

## Installing the Batteries in the Remote Control

Install the batteries (AAx2) matching the polarity indicated inside battery compartment of the remote control.

**1** **Open the cover.**
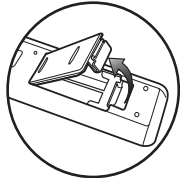
**2** **Insert batteries.**
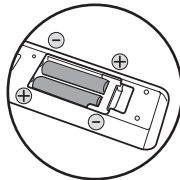
Make sure to match + and - on the batteries to the marks indicated in the battery compartment.

**3** **Close the cover.**
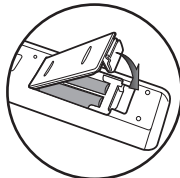
### Caution:
Never throw batteries into a fire.
### Note:
• Be sure to use AA size batteries.
• Dispose of batteries in a designated disposal area.
• Batteries should always be disposed of with the environment in mind. Always dispose of batteries in accordance with applicable laws and regulations.
• If the remote control does not operate correctly, or if the operating range becomes reduced, replace batteries with new ones.
• When necessary to replace batteries in the remote control, always replace both batteries with new ones. Never mix battery types or use new and used batteries in combination.
• Always remove batteries from remote control if they are dead or if the remote control is not to be used for an extended period of time. This will prevent battery acid from leaking into the battery compartment.

## Using a Remote Control

Keep in mind the following when using the remote control:
• Make sure that there are no obstacles between the remote control and the infrared sensor window on the unit.
• Remote operation may become unreliable if strong sunlight or fluorescent light is shining on the infrared sensor window of the unit.
• Remote control for different devices can interfere with each other. Avoid using remote control for other device located close to the unit.
• Replace the batteries when you notice a fall off in the operating range of the remote control.
• The maximum operable ranges from the unit are as follows.
- **Line of sight**: approx. 23 feet (7m)
- **Either side of the center:**
  approx. 23 feet (7m) within 30°

30° 30°
23feet (7m)  23feet (7m)  23feet (7m)

TOSHIBA
SE-R0265
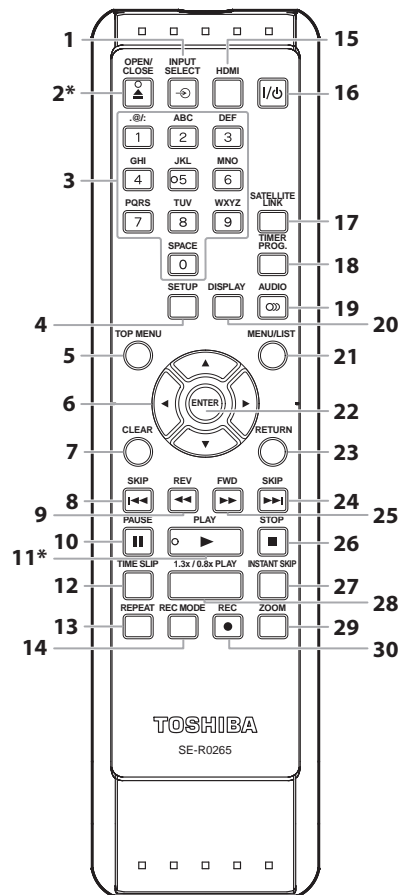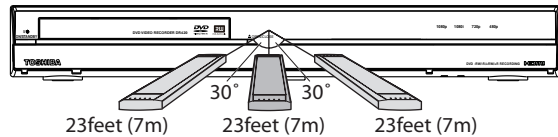
# FUNCTIONAL OVERVIEW

(∗) The unit can also be turned on by pressing these buttons.

**1. INPUT SELECT ⊕ button**
- Press to select the appropriate input.

**2. OPEN/CLOSE ⏏ button***
- Press to open or close the disc tray.

**3. Number/Character buttons**
- Press to select a title/chapter/track/file on display.
- Press to enter values for the settings in the main menu.
- Press to enter title names.

**4. SETUP button**
- Press to display the main menu.
- During DVD playback, press and hold for more than 3 seconds to switch the progressive scanning mode to the interlace mode. (Though ⊘ appears, the output mode switches to the interlace and "480   ," will be displayed on the front panel display briefly.)

**5. TOP MENU button**
- Press to display the title list.

**6. Cursor ▲ / ▼ / ◄ / ► buttons**
- Press to select items or settings.

**7. CLEAR button**
- Press to clear the password once entered, to cancel the programming for CD, to clear the selecting marker number in the display menu, etc.

**8. SKIP |◄◄ button**
- During playback, press to return to the beginning of the current chapter, track or file.
- During playback, press twice in quick succession to skip to the previous chapter or track.
- When playback is in pause, press repeatedly to reverse the playback step by step.

**9. REV ◄◄ button**
- During playback, press to fast reverse playback.
- When playback is in pause, press to slow reverse playback.

**10. PAUSE ❙❙ button**
- Press to pause playback or recording.

**11. PLAY ► button***
- Press to start playback or resume playback.

**12. TIME SLIP button**
- Press once to start recording the TV program you are watching. Press again to watch the content being recorded from the beginning while recording continues. (VR mode DVD-RW with the recording mode of LP, EP or SLP only)

**13. REPEAT button**
- Press to display the repeat menu.

**14. REC MODE button**
- Press to switch the recording mode.

**15. HDMI button**
- Press to set the HDMI video resolution.

**16. ❙/⏻ ON/STANDBY button**
- Press to turn on the unit, or to turn the unit into the standby mode. (To completely shut down the unit, you must unplug the AC power cord).
- If timer programmings have been set, press to turn the unit into the timer-standby mode.

**17. SATELLITE LINK button**
- Press to turn the unit into the satellite link standby mode.
- In the satellite link standby mode, press to cancel the mode and to turn the unit on.

**18. TIMER PROG. button**
- Press to display the timer programming list.

**19. AUDIO ⦿⦿ button**
- Press to display the audio menu during playback.

**20. DISPLAY button**
- Press to display the display menu on or off.

**21. MENU/LIST button**
- Press to display the disc menu. To change original and playlist on the TV screen.

**22. ENTER button**
- Press to confirm or select menu items.

**23. RETURN button**
- Press to return to the previous displayed menu screen.

**24. SKIP ►►| button**
- During playback, press to skip to the next chapter, track or file.
- When playback is in pause, press repeatedly to forward the playback step by step.

**25. FWD ►► button**
- During playback, press to fast forward playback.
- When playback is in pause, press to slow forward playback.

**26. STOP ■ button**
- Press to stop playback or recording.
- Press to exit from the title list.

**27. INSTANT SKIP button**
- During playback, press to skip 30 seconds.

**28. 1.3x/0.8x PLAY button**
- During playback, press to play back in a slightly faster/slower speed while keeping the sound output.

**29. ZOOM button**
- During playback, press to enlarge the picture on the TV screen.

**30. REC ● button**
- Press once to start a recording.
- Press repeatedly to start the one-touch timer recording.

Introduction

Connections

Basic Setup

Disc Management

Recording

Playback

Editing

Function Setup

Others

**EN   13**

# GUIDE TO ON-SCREEN DISPLAYS AND MENUS

This unit uses the following on-screen displays and menus to guide you to the easy operations.
The on-screen displays give you the information on the loaded disc, the disc/file in playback, or the HDMI status, etc.
The menus allow you to change the various kinds of settings for playing back, recording, or editing to suit your preference.

## On-Screen Display / Menu

**The on-screen display changes in the following order as you press [DISPLAY].**

**OFF**
↓
**Disc Information/Menu**
↓
**Title Name Information**
(only when DVD+RW/+R, VR mode DVD-RW/-R, or
unfinalized Video mode DVD-RW/-R is in playback)
or
**File Name Information**
(only when a CD with MP3/
JPEG files is in playback)
↓
**MP3 Tag Information**
(only when a MP3 file is in playback)
↓
**HDMI Information**
(only for the images output through the HDMI output)
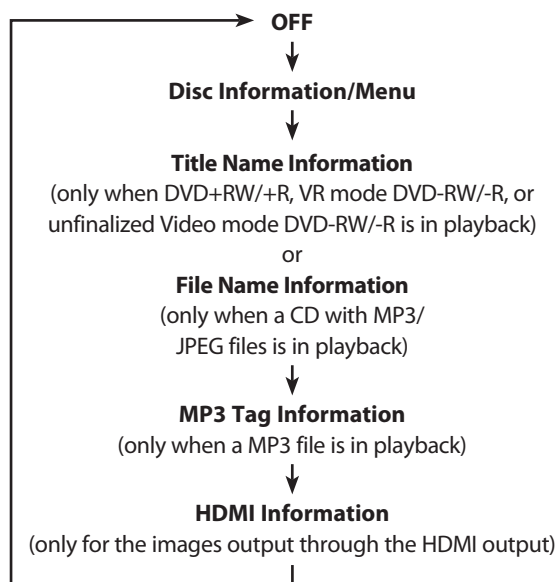
### Disc Information / Menu
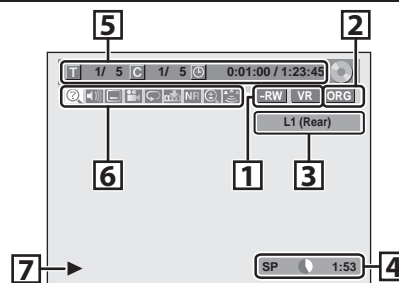


**\*** This is an example screen only for explanation.

1. Indicates a disc type and format mode.
2. Indicates a type of titles for VR mode DVD-RW .
3. Indicates a selected external input mode.
4. Indicates a recording mode and possible recording time left.
5. Indicates a title number / total number of titles, chapter number / total number of chapters, elapsed time and total time of disc playback.
6. Each icon means:

   ⃝ : Search    🔲 : Marker

   🔊 : Audio    NR : Noise Reduction / Black Level

   🔲 : Subtitle    ⊕ : Zoom

   🎥 : Angle    🔲 : Surround

   🔁 : Repeat

7. Indicates an operation status.

---

*Note*
• In some descriptions on this manual, only one disc type is indicated as an example.

---

**14 EN**

# GUIDE TO ON-SCREEN DISPLAYS AND MENUS

## Title/File Name Information

Title name information

| Title Name | |
| My Title | |

File name information

| File Name | |
| My File | |

## MP3 Tag Information

• First, track name will be displayed.

| Track Name |

↓

• If you press **[DISPLAY]** one more time, artist name will be displayed.

| Artist Name |

↓

• If you press **[DISPLAY]** one more time, album name will be displayed.

| Album Name |

• If there is no artist, track or album name, "Not Available" will be displayed.

## HDMI Information

| | 1 | | 2 |
| Video Info. : | 480p | / | YCbCr |
| Audio Info. : | Bitstream | | |
| | | 3 |
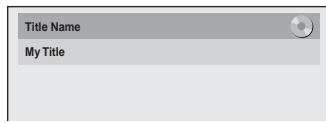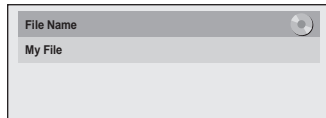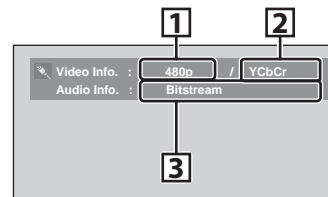
**\*1.** Indicates the resolution of the HDMI output image.
**\*2.** Indicates the HDMI video format.
**\*3.** Indicates the HDMI audio format.
**\*** "- - -" will be displayed, when it does not have any information.

Connections

Basic Setup

Disc Management

Recording

Playback

Editing

Function Setup

Others

**EN  15**

# GUIDE TO ON-SCREEN DISPLAYS AND MENUS

## Main Menu

Press **[SETUP]** to display the main menu. Then use **[▲ / ▼]** to select a menu and press **[ENTER]** to display the menu. These menus provide entries to all main functions of the unit.

```
  Setup
1 General Setting
2 Timer Programming
3 Title List
4 DVD Menu
5 DISC Playback Mode
```
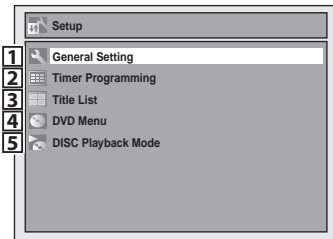
1. **General Setting:**
   To go to general setting menu.
2. **Timer Programming:**
   To program a timer recording.
3. **Title List:**
   To call up the title list.
4. **DVD Menu:**
   To set up the DVD setting.
5. **DISC Playback Mode:**
   To set up the disc playback setting.
   • "DISC Playback Mode" is available only when an audio CD, a CD-RW/-R with MP3 / JPEG files is inserted into the unit.

## General Setting Menu

```
  General Setting
1
2 Playback
3 Display
4 Video
5 Recording
6 Clock
7 HDMI
  Reset All
```
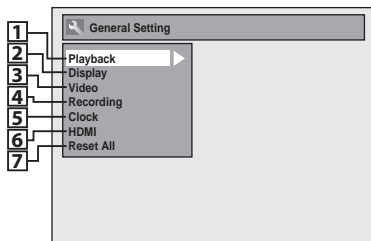
1. **Playback:**
   To set up the unit to play back discs as you prefer.
2. **Display:**
   To set up the OSD screen as you prefer.
3. **Video:**
   To set up the video setting.
4. **Recording:**
   To set up the unit to record to discs as you prefer.
5. **Clock:**
   To set up the clock of the unit as you need.
6. **HDMI:**
   To set up the HDMI connection setting.
7. **Reset All:**
   To reset the setting to the factory default.

## DVD Menu / DISC Playback Mode

<DVD Menu>

```
  DVD Menu
1 Format
2 Finalize
3 Disc Protect OFF ⇨ ON
4 Delete All Playlists
```

<DISC Playback Mode menu>
**When an Audio CD is inserted:**

```
  DISC Playback Mode
5 Random Play
6 Program Play
```
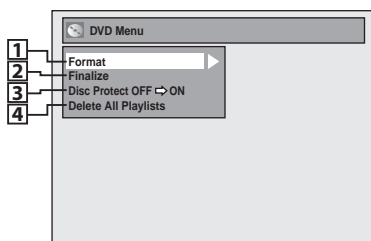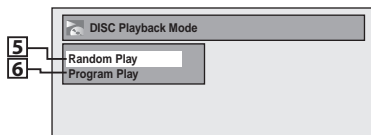
**When a JPEG / MP3 disc is inserted:**

```
  DISC Playback Mode
7 Music
8 Photo
          Random Play
5         Slide Show
9
```
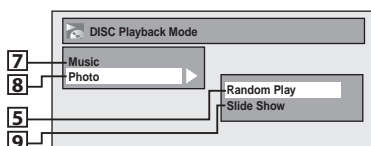
1. **Format** (DVD-RW, DVD+RW only)**:**
   Allows you to format the disc.
2. **Finalize:**
   Allows you to finalize a disc containing recorded titles.
3. **Disc Protect** (VR mode DVD-RW, DVD+RW/+R only)**:**
   Allows you to protect a disc from accidental editing or recording.
4. **Delete All Playlists** (VR mode DVD-RW only)**:**
   Allows you to delete playlist.
5. **Random Play:**
   Allows you to activate the random playback feature.
6. **Program Play:** (Audio CD only)
   Allows you to activate the program playback feature.
7. **Music:**
   Allows you to make settings for MP3 playback.
8. **Photo:**
   Allows you to make settings for JPEG playback.
9. **Slide Show:** (JPEG files only)
   Allows you to select the display time of the slide show mode.

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# FRONT PANEL DISPLAY GUIDE
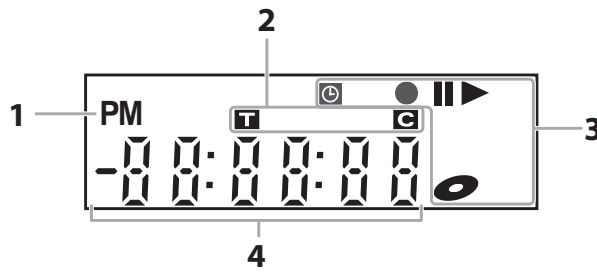
### 1.

**PM** : Appears in the afternoon with the clock display.

### 2. Title / track and chapter mark

**T** : Appears when indicating a title / track number.

**C** : Appears when indicating a chapter number.

### 3. Current status of the unit

**II** : Appears when playback is paused.

**▶** : Appears when playing back a disc.

🕒 : Appears when the timer programming or OTR has been set and is proceeding.
: Flashes when all timer recordings have been finished.

● : Appears during recording process.
: Flashes when a recording pauses.

💿 : Appears when a disc is in this unit.

### 4. Displays the following

• Elapsed playback time
• Current title / chapter / track / file number
• Recording time / remaining time
• Clock
• Selected external input position
• Remaining time for one-touch timer recording
• Selected HDMI video resolution

## Display Message

| | |
|---|---|
| OPEN | Appears when the disc tray is opening. |
| CLOSE | Appears when the disc tray is closing. |
| Load | Appears when a disc is loaded on the disc tray. |
| ⊂∷⊐💿 | Appears when data is being recorded on a disc. |
| 480 P | Appears when HDMI video resolution (480p) is selected. |
| 720 P | Appears when HDMI video resolution (720p) is selected. |
| 1080 i | Appears when HDMI video resolution (1080i) is selected. |
| 1080 P | Appears when HDMI video resolution (1080p) is selected. |

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# CONNECTIONS

**Read this first:**

**1)** Disconnect the AC power cords of the devices from the AC outlet.

**2)** Make the connection as illustrated below.

**3)** After making all the connections, connect the AC power cords of the devices.

---

- Connect this unit directly to the TV. If the RCA audio/video cables are connected to a VCR, DVD playback pictures may be distorted due to the copy protection system.
- **When "Progressive Scan" is set to "ON", no video signal will be output from the VIDEO OUT or S-VIDEO OUT jack.**

---

## Connecting to an External Tuner
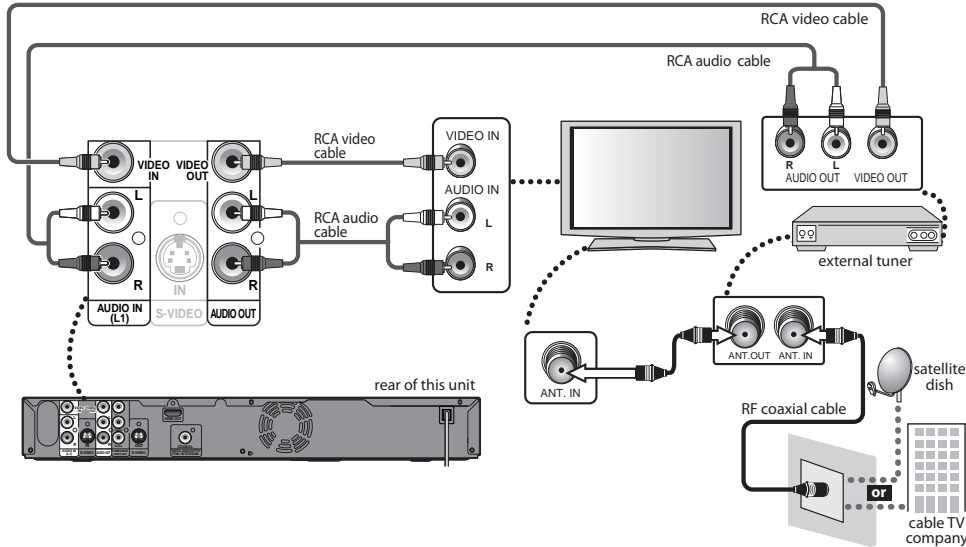


**After making the connection as described above, make sure to select the appropriate input type by following the steps on page 26.**

### Note
- Required cables and connecting methods differ depending on the external tuner.
  For more information, please contact your external tuner provider.

**With this setup:**
- You can record any unscrambled channel by selecting the channel on the external tuner. Be sure that the external tuner is turned on.
- **You cannot record one channel while watching another channel.**

---

**Supplied cables used in this connection are as follows:**

- RCA audio cable (L/R) x 1
- RCA video cable x 1

Please purchase the rest of the necessary cables at your local store.

---

## TV Connection Overview



| If Your TV has | Refer to |
|---|---|
| Higher Quality — HDMI IN | page 19 |
| COMPONENT VIDEO IN | page 20 |
| S-VIDEO IN | page 20 |
| Standard Quality — R L AUDIO IN VIDEO IN | page 21 |

**If your device has only an ANT. IN jack**

ANT. IN — page 21
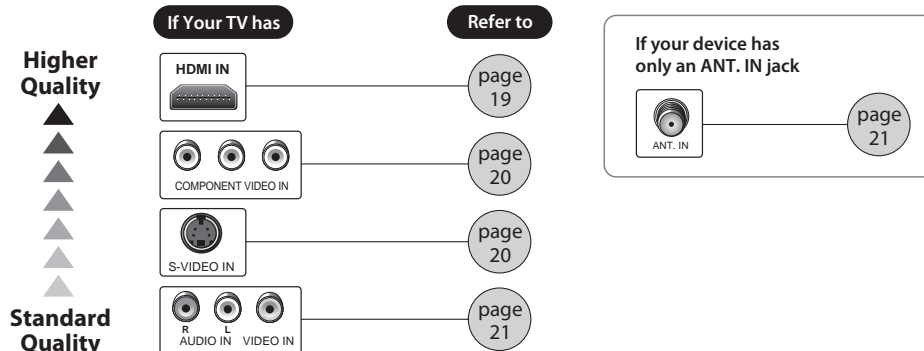
# CONNECTIONS

## Connecting to a TV with an HDMI™ Compatible Port

HDMI cable

HDMI OUT

HDMI IN

rear of this unit
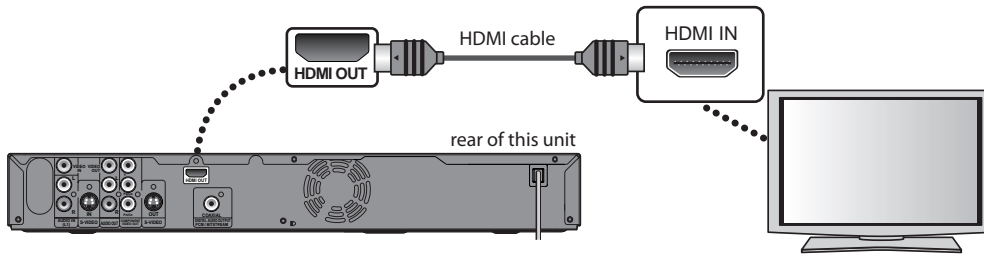
⚠ Do not tilt the connector when inserting it into the HDMI jack, and make sure the shapes of the jack and the connector are matched.

**No supplied cables are used in this connection:**
Please purchase the necessary cables at your local store.

### HDMI Video Resolution and Actual Output Signals

Press **[HDMI]** to select the HDMI video resolution. The video resolution changes as follows every time **[HDMI]** is pressed.

| Front Panel Display | Video Output Signal |
|---|---|
| 480P | 480 Progressive |
| **Press [HDMI]** ↓ | |
| 720P | 720 Progressive |
| **Press [HDMI]** ↓ | |
| 1080i | 1080 interlaced |
| **Press [HDMI]** ↓ | |
| 1080P | 1080 Progressive |
| **Press [HDMI]** | |

• The HDMI mode that is not supported by display device will be skipped.

### Copyright protection system

To play back the digital video images of a DVD via an HDMI connection, it is necessary that both the player and the display device (or an AV amplifier) support a copyright protection system called HDCP (high-bandwidth digital content protection system). HDCP is copy protection technology that comprises data encryption and authentication of the connected AV device. This unit supports HDCP. Please read the operating instructions of your display device (or AV amplifier) for more information.

### *Note for HDMI Connection*
• Because HDMI is an evolving technology, it is possible that some devices with an HDMI input may not operate properly with this unit.
• When using an HDCP-incompatible display device, the image will not be viewed properly.
• Among the devices that support HDMI, some devices can control other devices via the HDMI connector; this unit can be controlled by another device via the HDMI connector.
• When this unit's HDMI connector is connected to a DVI-D compatible monitor (HDCP compatible) with an HDMI-DVI converter cable, the signals are output in digital RGB.
• When the power failure occurs, or when you unplug the unit, some problems in the HDMI setting might occur. Please check and set the HDMI setting again.

**EN** **19**

# CONNECTIONS

## Connecting to a TV with Component Video Input jacks
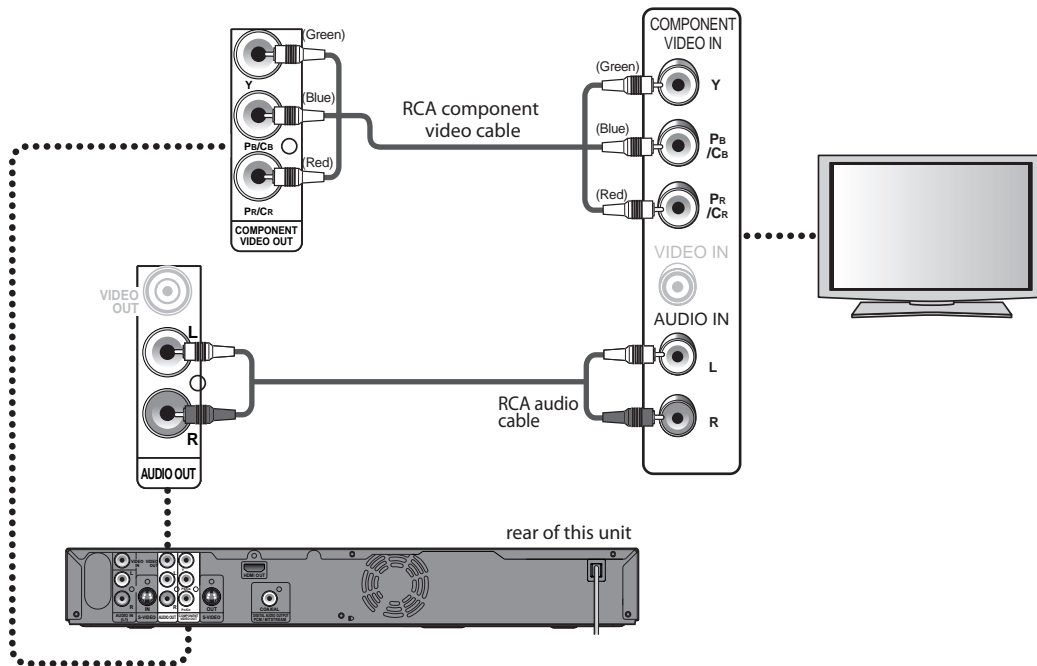


**Supplied cables used in this connection are as follows:**

• RCA audio cable (L/R) x 1
Please purchase the rest of the necessary cables at your local store.

## Connecting to a TV with an S-Video Input Jack
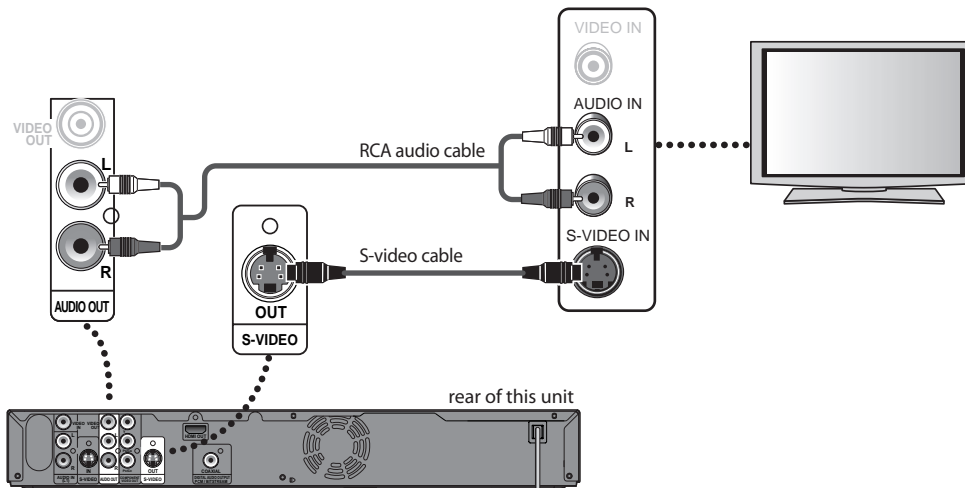


**Supplied cables used in this connection are as follows:**

• RCA audio cable (L/R) x 1
Please purchase the rest of the necessary cables at your local store.

# CONNECTIONS

## Connecting to a TV with Audio / Video Input Jacks
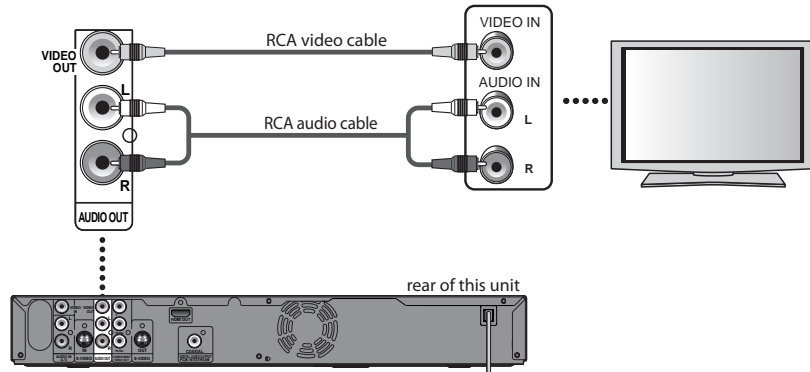
VIDEO OUT

VIDEO IN

RCA video cable

AUDIO IN

L

L

RCA audio cable

R

R

AUDIO OUT

rear of this unit

**Supplied cables used in this connection are as follows:**

• RCA audio cable (L/R) x 1
• RCA video cable x 1
Please purchase the rest of the necessary cables at your local store.

## Connecting to a TV without Audio / Video Input Jacks
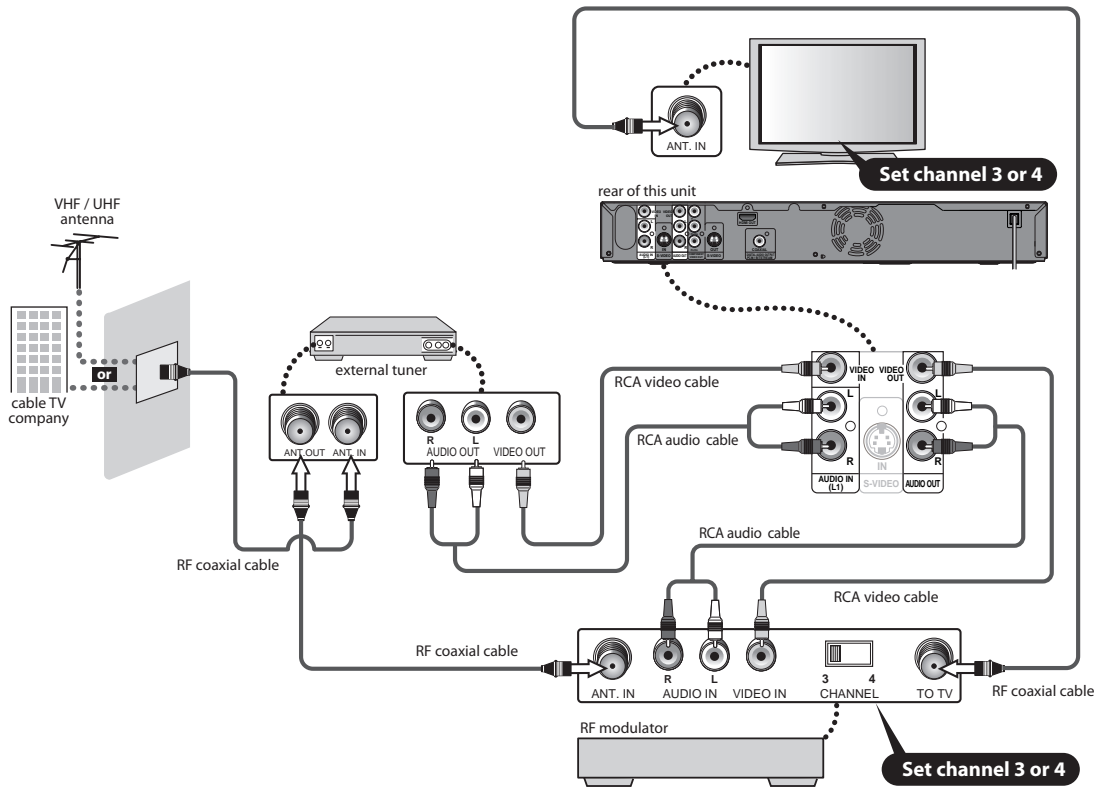
ANT. IN

Set channel 3 or 4

rear of this unit

VHF / UHF antenna

external tuner

RCA video cable

VIDEO IN

VIDEO OUT

or

cable TV company

ANT OUT   ANT. IN

R           L
AUDIO OUT   VIDEO OUT

L

L

RCA audio cable

R

R

AUDIO IN
(L1)

IN
S-VIDEO

AUDIO OUT

RF coaxial cable

RCA audio cable

RF coaxial cable

RCA video cable

RF coaxial cable

ANT. IN   R   L   VIDEO IN   3   4   TO TV   RF coaxial cable
          AUDIO IN          CHANNEL

RF modulator

Set channel 3 or 4

**Supplied cables used in this connection are as follows:**

• RCA audio cable (L/R) x 1
• RCA video cable x 1
Please purchase the rest of the necessary cables at your local store.

### Note
• **RF modulator is not supplied with this unit. You need to purchase it at your local store.**
• The quality of picture may become poor if this unit is connected to an RF modulator.

**EN  21**

# CONNECTIONS

## Digital Audio Connection

### Coaxial Cable Connection

Dolby Digital decoder



rear of this unit

digital audio
coaxial cable

digital audio
coaxial input jack
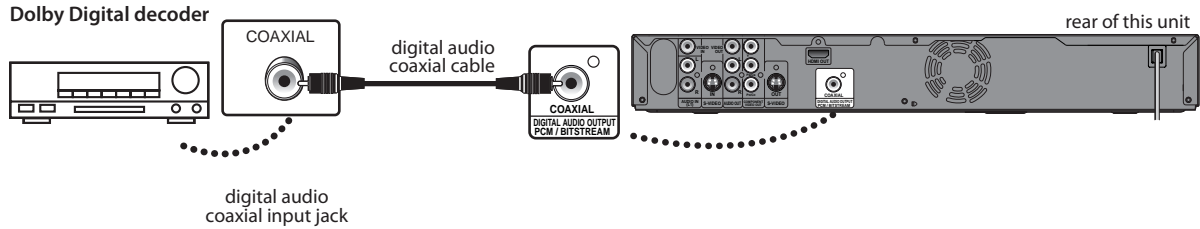
### HDMI Audio Connection

AV receiver / amplifier with an HDMI input jack



rear of this unit

HDMI cable
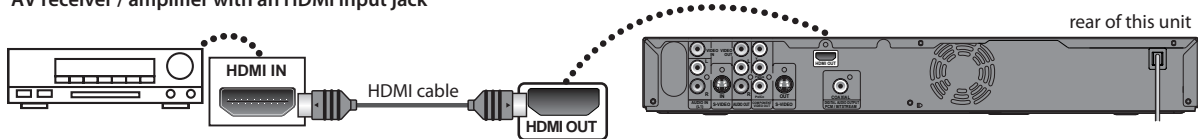
**To set up "HDMI Audio", refer to pages 82 and 91-92.**

**No supplied cables are used in these connections:**
Please purchase the necessary cables at your local store.

### Multi Channel Digital Audio Setting

**To set up "Dolby Digital", refer to pages 81 and 83-85.**

| | Setting in the Setup Menu | | Actual Audio Output | |
|---|---|---|---|---|
| Audio Format (disc) | Dolby Digital Setting of this unit (refer to page 85) | DTS Setting of this unit (refer to page 85) | HDMI OUT | DIGITAL AUDIO OUTPUT |
| Dolby Digital | Stream | — | Dolby Digital | Dolby Digital |
| | PCM | — | 2 channel PCM | 2 channel PCM |
| DTS | — | ON | DTS | DTS |
| | — | OFF | No output | No output |
| LPCM | Stream | ON | 2 channel PCM | 2 channel PCM |
| | PCM | OFF | 2 channel PCM | 2 channel PCM |

# CONNECTIONS

### *Note*

- The audio source on a disc in a Dolby Digital multi channel surround format cannot be recorded as digital sound by an MD or DAT deck.
- By connecting this unit to a Dolby Digital decoder, you can enjoy high-quality Dolby Digital multi channel surround sound as heard in the movie theaters.
- By connecting this unit to the DTS decoder, you can enjoy Multi-channel Surround System which reproduces the original sound as truthfully as possible. Multi-channel Surround System is developed by the DTS, Inc.
- Playing back a DVD using incorrect settings may generate noise distortion and may also damage the speakers.
- For audio CD and MP3 files, 2 channel PCM will be output regardless of the "Dolby Digital" setting.
  If the connected device is not compatible with HDMI BITSTREAM, audio will be output as PCM even if you select "Stream" in "Dolby Digital" setting (Refer to page 85).
- The audio signals from the HDMI connector (including the sampling frequency, the number of channels and bit length) maybe limited by the device that is connected.
- Among the monitors that support HDMI, some do not support audio output (for example, projectors). In connections with device such as this unit, audio signals are not output from the HDMI output connector.
- If the connected equipment is not compatible with HDMI BITSTREAM, DTS sound will not be output.

## 2 Channel Analog Audio Connection

stereo system

analog audio input jacks

AUDIO IN
R   L

VIDEO OUT

L

R

AUDIO OUT

rear of this unit

RCA audio cable

**AUDIO OUT**

---
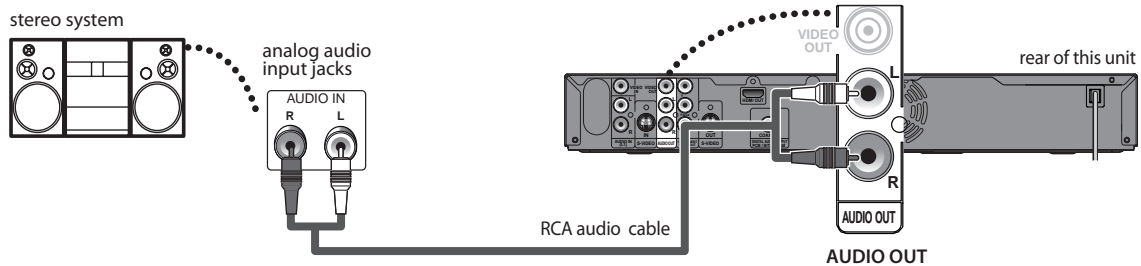
**Supplied cables used in this connection are as follows:**

- RCA audio cable (L/R) x 1

# INITIAL SETTING

When you turn on this unit for the first time, you need to follow these steps after you have completed all the connections.
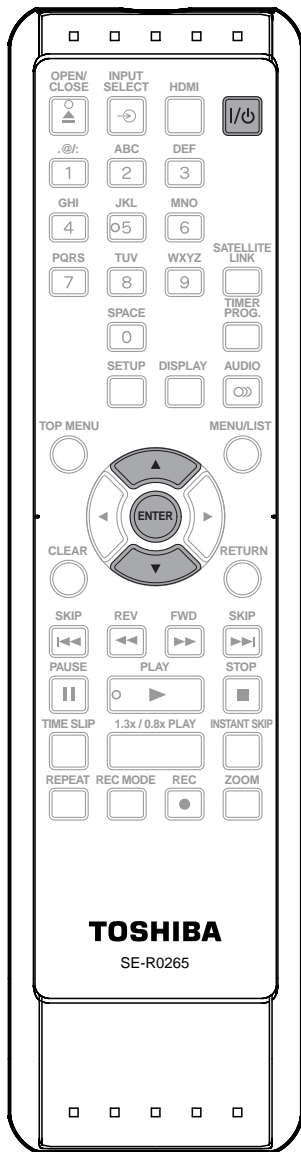
**1** After you have made all the necessary connections, press [I/⏻ ON/STANDBY] to turn on the unit.

**2** Turn on your TV.

**3** Press the button on the TV's remote control that accesses the external input channel. It may be labeled "SOURCE", "AV" or "SELECT" (refer to your TV's user manual). Or press "2" on the TV's remote control, then press channel down button repeatedly until you see the "Initial Setting" menu.

```
Initial Setting

           OSD Language
             English
             Français
             Español


Select the language for Setup display.
```
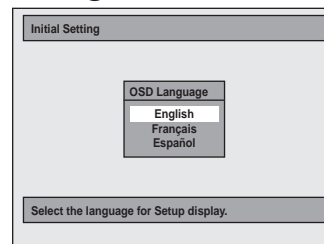
**4** Use [▲ / ▼] to select your desired language, then press [ENTER] to set language.

**5** Press [ENTER] to activate "Clock Setting".

```
Initial Setting

           Clock Setting
           --- / -- / ---- ( --- )
                       -- : -- --


ENTER:   Set Clock.
RETURN:  Exit Initial Setting.
```
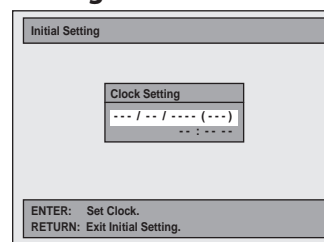
**6** Proceed to step 4 in "Clock Setting" on page 25.

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# SETTING THE CLOCK

Set the clock before you try the timer programming.

## Clock Setting

Connections

Basic Setup

Disc
Management

Recording

Playback

Editing

Function Setup

Others
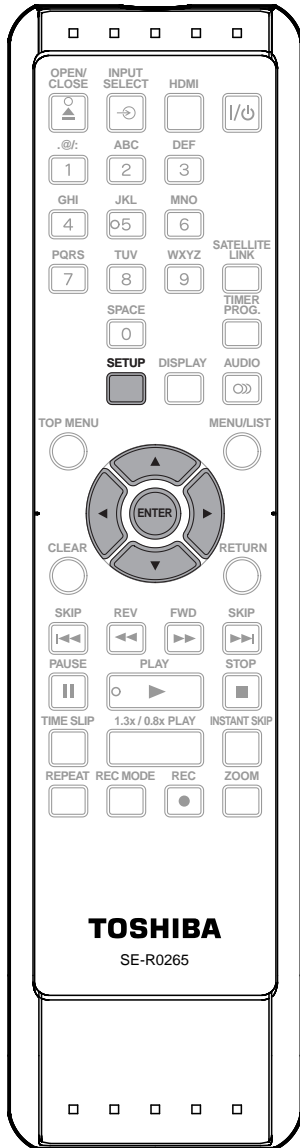
**1** Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [ENTER].

**2** Use [▲ / ▼] to select "Clock", then press [ENTER].
"Clock" menu will appear.

**3** Use [▲ / ▼] to select calendar or time, then press [ENTER].

| Clock Setting |
| --- |
| JAN / 01 / 2009 ( THU ) |
| 12 : 00 AM |
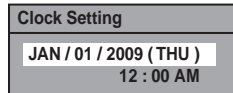
**4** Use [◄ / ►] to select an item to set, and use [▲ / ▼] to select the contents to suit your preference, then press [ENTER].

| Clock Setting |
| --- |
| JAN / 01 / 2009 ( THU ) |
| 12 : 00 AM |
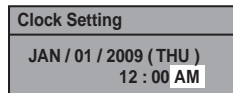
Your setting will be activated.
The clock start counting when you press [ENTER].

**5** Press [SETUP] to exit.

**TOSHIBA**

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*Note*
- Your clock setting will be lost if either there is a power failure or this unit has been unplugged for more than 30 seconds.
- For setting the day, year, hour and minute, **[the Number buttons]** can also be used.
- You can set the built-in calendar from the year 2008 up to 2058.

**EN** 25

# SETTINGS FOR THE VIDEO INPUT

You must let the unit know which video input jack you are using before making a recording.
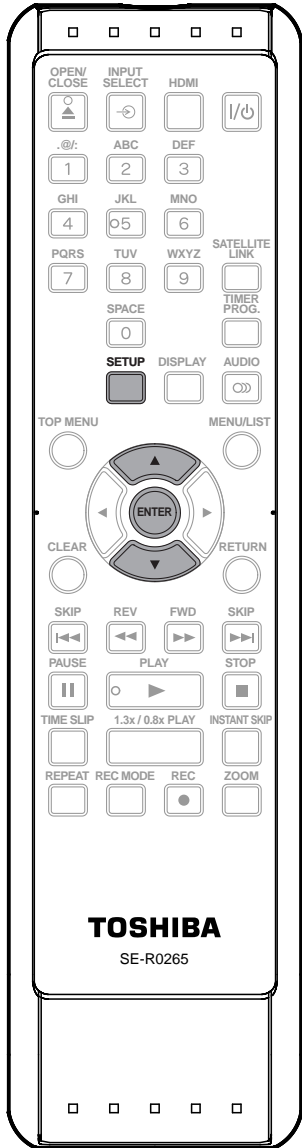
**1** **Press [SETUP].**

**2** **Use [▲ / ▼] to select "General Setting", then press [ENTER].**

**3** **Use [▲ / ▼] to select "Video", then press [ENTER].**

**4** **Use [▲ / ▼] to select "Select Video", then press [ENTER].**

**5** **Use [▲ / ▼] to select the desired external input position, then press [ENTER].**

**6** **Use [▲ / ▼] to select the input jack type to connect, then press [ENTER].**
If you want to use VIDEO IN jack, select "Video In", then press **[ENTER]**.
If you want to use S-VIDEO IN jack, select "S-Video In", then press **[ENTER]**.

| General Setting | |
|---|---|
| Playback | |
| Display | Progressive |
| Video | TV Aspect |
| Recording | L1 (Rear) |
| Clock | ☑ Video In |
| HDMI | ☐ S-Video In |
| Reset All | |

**7** **Press [SETUP] to exit.**

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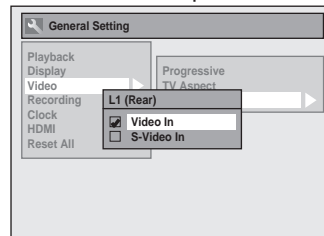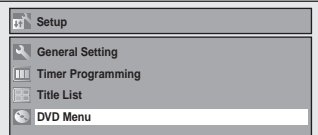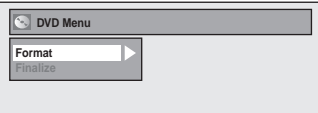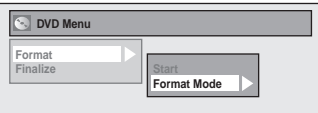
# FORMATTING A DISC

## Choosing the Recording Format of a Brand-New DVD-RW

DVD -RW VIDEO MODE  DVD -RW VR MODE

When inserting a brand-new DVD-RW or DVD+RW, the unit automatically starts to initialize the disc. DVD+RW will always be formatted in +VR mode, and DVD-RW will be formatted either video or VR mode according to the recording format mode setting of the unit. Before insert a brand-new DVD-RW, you need to set the recording format to the desired mode. You can also manually format a DVD-RW once it has been used.
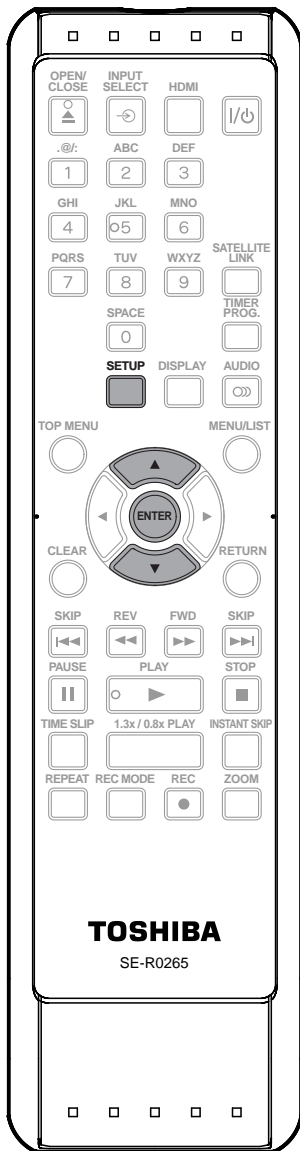
**TOSHIBA**

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**1** **Press [SETUP].**

**2** **Use [▲ / ▼] to select "DVD Menu", then press [ENTER].**

Setup
General Setting
Timer Programming
Title List
DVD Menu

**3** **Use [▲ / ▼] to select "Format", then press [ENTER].**

DVD Menu
Format
Finalize

**4** **Use [▲ / ▼] to select "Format Mode", then press [ENTER].**

DVD Menu
Format
Finalize
Start
Format Mode

**5** **Use [▲ / ▼] to select "Video mode" or "VR mode", then press [ENTER].**

**6** **Press [SETUP] to exit.**

**7** **Insert a brand-new disc.**
Formatting will start.

Formatting ▮▮▮▮▮▮▮▮▮▮▮▮ 90%

**8** **Formatting is completed.**
"100%" is indicated.

### Note
• The recording format setting is effective only for DVD-RW. You cannot change the recording format for a DVD-R and DVD+RW/+R.
• You cannot mix two formats on one DVD-RW disc. If you insert a disc that has been formatted before, the recording format is not changed if you select another format in the "Setup" menu only. To reformat a disc (change disc format type), refer to "Reformatting a Disc Manually" on page 28.

**EN** **27**

Connections · Basic Setup · Disc Management · Recording · Playback · Editing · Function Setup · Others

## Reformatting a Disc Manually

DVD -RW Video Mode    DVD -RW VR Mode    DVD +RW

If you are using a DVD-RW or DVD+RW, you can format the disc by performing "Format". You can format DVD-RW for either video mode recording or VR mode recording. DVD+RW can be format in order to erase all content of the disc.
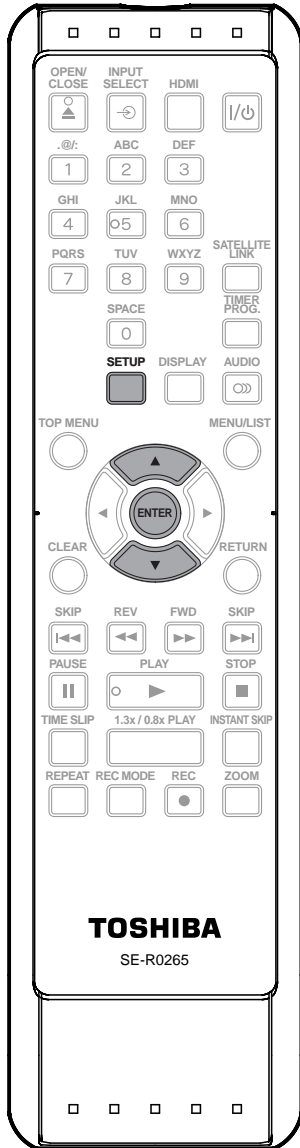
**Insert a recordable disc.**

**1** Press [SETUP].

**2** Use [▲ / ▼] to select "DVD Menu", then press [ENTER].

> Setup
> 　General Setting
> 　Timer Programming
> 　Title List
> 　DVD Menu

**3** Use [▲ / ▼] to select "Format", then press [ENTER].
e.g.) VR mode DVD-RW

> DVD Menu
> 　Format ▶
> 　Finalize
> 　Disc Protect OFF ⇨ ON
> 　Delete All Playlists
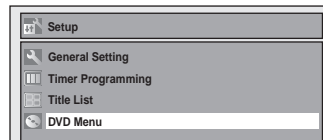
**4** Use [▲ / ▼] to select "Start", then press [ENTER].

> DVD Menu
> 　Format ▶
> 　Finalize          Start
> 　Disc Protect OFF ⇨ ON    Format Mode
> 　Delete All Playlists

Selection menu will appear and prompt you to confirm.
• For DVD+RW, use **[▲ / ▼]** to select "Yes", then press **[ENTER]**.

**5** Use [▲ / ▼] to select "Yes", then press [ENTER].
Formatting will start.
If you want to cancel formatting, select "No".

> Are you sure?
> 　Yes
> 　No
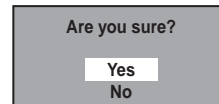
**6** Formatting is completed.
"100%" is indicated.

> Formatting ▬▬▬▬▬▬▬▬ 100%

### Note
• When you reformat the disc, the contents of the disc are erased.
• For DVD-RW, make sure that the recording format is set to the desired mode. (See steps 1 to 6 in "Choosing the Recording Format of a Brand-New DVD-RW" on page 27.)
• This unit may not be able to reformat a disc that is not previously formatted by this unit e.g. DVD disc formatted by PC or another recorder.

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# SETTING A DISC TO PROTECT

DVD RW VR MODE  DVD +RW  DVD +R

To prevent accidental recording, editing or erasing the titles, you can protect them from "DVD Menu" menu.
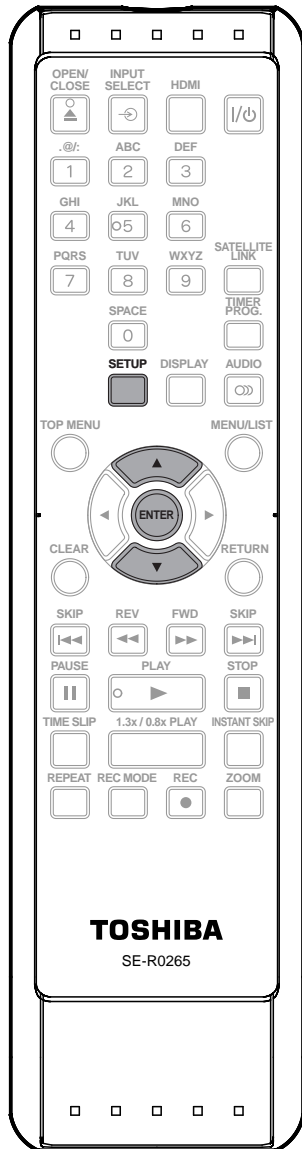
**1** Press [SETUP].

**2** Use [▲ / ▼] to select "DVD Menu", then press [ENTER].

**3** Use [▲ / ▼] to select "Disc Protect OFF ➡ ON", then press [ENTER].
e.g.) VR mode DVD-RW

> DVD Menu
>
> Format
> Finalize
> Disc Protect OFF ➡ ON
> Delete All Playlists

**4** Use [▲ / ▼] to select "Yes", then press [ENTER].

> Protect this disc?
>
> Yes
> No
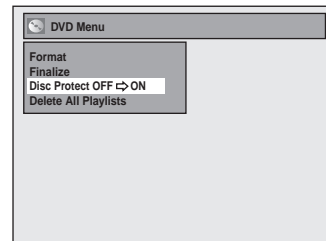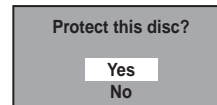
A disc will be protected.

**This operation may take awhile to be completed.**

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## Note

**To cancel the disc protect:**

• When you insert a disc protected with this unit, "Disc Protect ON ➡ OFF" will appear instead of "OFF ➡ ON".

> DVD Menu
>
> Format
> Finalize
> Disc Protect ON ➡ OFF
> Delete All Playlists
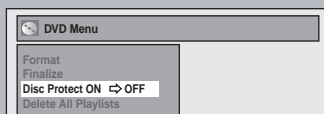
To release the protection for the disc, select "Disc Protect ON ➡ OFF" at step 3, then follow rest of the procedures.

## Auto Finalizing

**⊘ DVD** –RW Video Mode  **⊘ DVD** –R Video Mode  **⊘ DVD** +R

You can finalize discs automatically using this function. You can use this function to finalize discs after finishing timer recordings and at the end of the disc space.
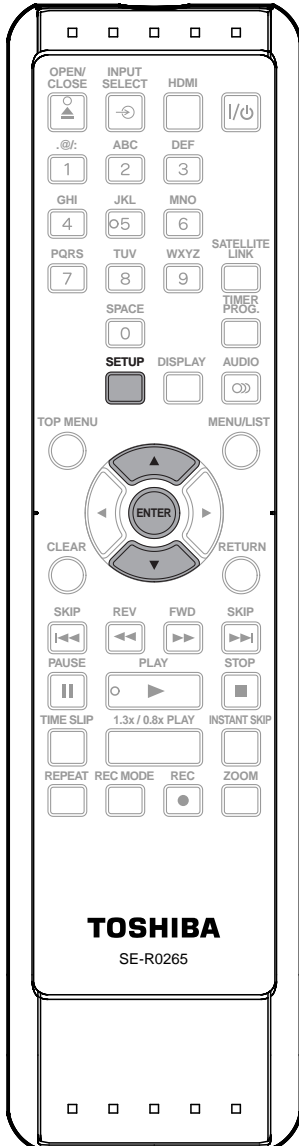
**1** **Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [ENTER].**
"General Setting" menu will appear.

**2** **Use [▲ / ▼] to select "Recording", then press [ENTER].**
"Recording" menu will appear.

**3** **Use [▲ / ▼] to select "Auto Finalize", then press [ENTER].**

**4** **Use [▲ / ▼] to select "Disc Full" or "End of Timer Rec", then press [ENTER].**

| Auto Finalize |
|---|
| Disc Full ▶ |
| End of Timer Rec |

**5** **Use [▲ / ▼] to select "ON", then press [ENTER].**

| Disc Full |
|---|
| ☐ ON |
| ☑ OFF |

| End of Timer Rec |
|---|
| ☐ ON |
| ☑ OFF |
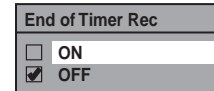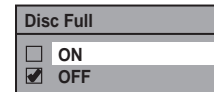
Your setting will be activated.

**6** **Press [SETUP] to exit.**

*Remote control image:*

OPEN/CLOSE — INPUT SELECT — HDMI — ⏻

.@/: 1 — ABC 2 — DEF 3
GHI 4 — JKL 5 — MNO 6
PQRS 7 — TUV 8 — WXYZ 9 — SATELLITE LINK
SPACE 0 — TIMER PROG.
SETUP — DISPLAY — AUDIO
TOP MENU — MENU/LIST
▲ ◀ ENTER ▶ ▼
CLEAR — RETURN
SKIP — REV — FWD — SKIP
PAUSE — PLAY — STOP
TIME SLIP — 1.3x / 0.8x PLAY — INSTANT SKIP
REPEAT — REC MODE — REC — ZOOM

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*Note*
• This function is not available after finishing daily or weekly program recording.

Introduction

Connections

Basic Setup

Disc Management

Recording

Playback

Editing

Function Setup

Others

# PLAYING THE DISCS IN OTHER DVD PLAYERS
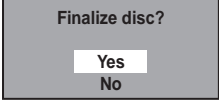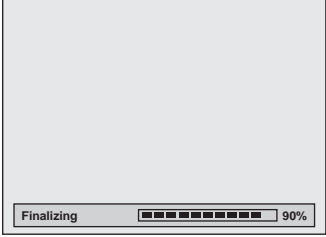
## Finalizing a Disc

You will need to finalize discs to play back on other DVD players.

Finalizing may take several minutes up to an hour.

Since the process of the finalization fills empty space of the disc, a shorter recording period on the disc will require a longer time period for finalization. Do not unplug the power cord during finalization.
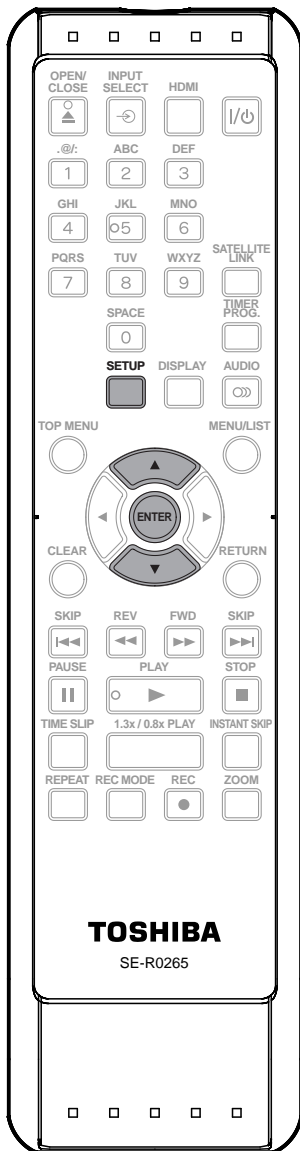
**1** Press [SETUP].

**2** Use [▲ / ▼] to select "DVD Menu", then press [ENTER].
"DVD Menu" menu will appear.

**3** Use [▲ / ▼] to select "Finalize", then press [ENTER].

**4** Use [▲ / ▼] to select "Yes", then press [ENTER].
e.g.) VR mode DVD-RW

> Finalize disc?
>
> Yes
> No

Finalizing will start.

> Finalizing ▬▬▬▬▬▬▬▬▬ 90%

**This operation may take awhile to be completed.**

**5** Finalizing is completed.

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## *Note*

- Finalizing a disc in video mode and +VR mode automatically creates a title menu.
- After you finalize the DVD+RW, you can call up the title list by pressing **[TOP MENU]**, or you can call up the title menu by pressing **[MENU/LIST]**.
- Even after DVD+RW is finalized, you can still record or edit. After you finalize DVD-RW/-R or DVD+R, you cannot edit or record anything else on that disc.
- If you insert a DVD-RW finalized with this unit, "Undo Finalization" will appear instead of "Finalize" at step 3.
- To release the finalization of the DVD-RW disc, select "Undo Finalization" at step 3.

DVD Menu

Format
Undo Finalization
Disc Protect OFF ➡ ON
Delete All Playlists
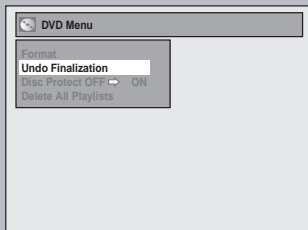
- To undo the finalization of the DVD+RW, make an additional recording onto the disc.
- DO NOT power off during finalizing. This may result in a malfunction.
- For DVD+RW, if you have added or deleted chapters, or made chapters hidden, you must finalize the disc before being able to see those effects on other units. To play back discs other than DVD+RW on other DVD players, you will need to finalize.

## *To cancel finalizing... (DVD-RW only)*

Press **[STOP ■]** during the finalizing is in progress. Use **[▲ / ▼]** to select "Yes", then press **[ENTER]**. Finalizing is canceled and the unit switches to stop mode.

Do you want to cancel ?
Yes
No
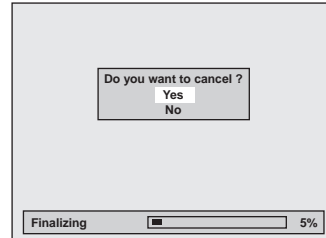
Finalizing                  5%

If "⊘" appears when **[STOP ■]** is pressed, you cannot cancel finalizing because the finalizing has already reached at a critical point in its process.

If "No" is selected and **[ENTER]** or **[RETURN]** is pressed, finalizing is continued.

You cannot cancel finalizing a DVD-R, DVD+R and DVD+RW once it has started.

# INFORMATION ON DVD RECORDING

Introduction

Connections

Basic Setup

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Others

## Recording Mode

You can select a recording mode among 5 options, and the recording time will depend on the recording mode you select as follows.

| Recording mode | Recording time | | Video/ Sound Quality |
|---|---|---|---|
| | 12cm | 8cm | |
| XP | 60 min | 18 min | ☆☆☆☆☆ |
| SP | 120 min | 36 min | ☆☆☆☆ |
| LP | 240 min | 72 min | ☆☆☆ |
| EP | 360 min | 108 min | ☆☆ |
| SLP | 480 min | 144 min | ☆ |

• The recording times listed above are estimates and are for reference purposes only. Actual recording times may vary.
• The audio and video quality of content being recorded may differ depending on the recording mode/recording time chosen.

### Note
• **This unit cannot record to CD-RW or CD-R.**
• DVD-RW/-R, DVD+RW/+R and CD-RW/-R recorded on a personal computer or a DVD or CD recorder may not be played back if the disc is damaged or dirty or if there is condensation on the player's lens.
• If you record a disc using a personal computer, even if it is recorded in a compatible format it may not be played back because of the settings of the application software used to create the disc. (Check with the software publisher for more detailed information.)
• Discs recorded in video mode on this unit cannot record additional information using other DVD recorders.
• Since the recording is made by the VBR (variable bit rate) method, depending on the picture you are recording, the actual remaining time for recording may be a little shorter than the remaining time displayed on the TV screen.

## Restrictions on Recording

You cannot record copy-protected program using this unit. Copy-protected video signal is included in DVD-videos, some satellite broadcasts, some pay-per-view stations and some "premium" stations.
If copy-protected material is detected, recording will pause or stop automatically and an error message appears on the screen.
"Copy-once only" video can only be recorded to CPRM compatible DVD-RW formatted in VR mode.

### What is "CPRM"?
CPRM is a copy protection system with scramble system regarding the recording of "copy-once" broadcast programs. CPRM stands for Content Protection for Recordable Media.
This unit is CPRM compatible, which means that you can record copy-once broadcast programs, but you cannot make another copy of those recordings. CPRM recordings can only be made on CPRM compatible DVD-RW formatted in VR mode, and CPRM recordings can only be played back on DVD players that are specifically compatible with CPRM.

### Making discs playable in other DVD players (Finalize)
For DVD-RW/-R, it is necessary to finalize the disc after recording, in order to play back the disc on other DVD players. (Refer to pages 30-32.) For DVD+RW/+R, it is recommended to finalize the disc in order to make the disc more compatible to other DVD player. When video and +VR mode disc are finalized, a title menu is created. You cannot finalize discs in other DVD recorders.

# SETTINGS FOR A RECORDING

## Make Recording Compatible

DVD +RW    DVD +R

Use this feature to make the discs recorded on other unit recordable on this unit. When you make an additional recording on this unit with "Make Recording Compatible" set to "ON", the title list is automatically converted to our style.

**1) Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [ENTER].**

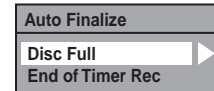**2) Use [▲ / ▼] to select "Recording", then press [ENTER].**
"Recording" menu will appear.

**3) Use [▲ / ▼] to select "Make Recording Compatible", then press [ENTER].**

**4) Use [▲ / ▼] to select "ON" or "OFF", then press [ENTER].**

| Make Recording Compatible |
|---|
| ☐ ON |
| ☑ OFF |
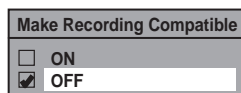
**ON:** Title list will be replaced when you make additional recordings to the discs recorded by other units.

**OFF:** Prohibiting additional record to the disc that has a title list created by other units.

**5) Press [SETUP] to exit.**

> **Note**
> • This function is also available for unfinalized DVD+R.

## Setting for Auto Chapter

DVD -RW VIDEO MODE    DVD -RW VR MODE    DVD -R VIDEO MODE    DVD +RW    DVD +R

You can set a specified time for chapter marks.

**1) Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [ENTER].**

**2) Use [▲ / ▼] to select "Recording", then press [ENTER].**
"Recording" menu will appear.

**3) Use [▲ / ▼] to select "Auto Chapter", then press [ENTER].**

**4) Use [▲ / ▼] to select a desired time option, then press [ENTER].**

| Auto Chapter |
|---|
| ☐ OFF |
| ☐ 5 minutes |
| ☑ 10 minutes |
| ☐ 15 minutes |
| ☐ 30 minutes |
| ☐ 60 minutes |
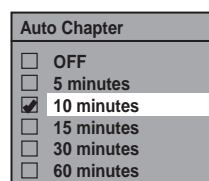
**5) Press [SETUP] to exit.**

> **Note**
> • The interval for auto chapter may be up to two minutes different from the time option you set.
> • A blank chapter may be created depending on the remaining time of the disc.

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# SETTINGS FOR A RECORDING

## Recording Audio Select (XP)

DVD
~RW
VIDEO MODE  DVD
~RW
VR MODE  DVD
~R
VIDEO MODE  DVD
+RW  DVD
+R

You can enjoy high quality sound recording. This function works only when the recording mode is set at XP.

**1) Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [ENTER].**

**2) Use [▲ / ▼] to select "Recording", then press [ENTER].**
"Recording" menu will appear.

**3) Use [▲ / ▼] to select "Recording Audio Select (XP)", then press [ENTER].**

**4) Use [▲ / ▼] to select "PCM" or "Dolby Digital", then press [ENTER].**

```
Recording Audio Select (XP)
☐  PCM
☑  Dolby Digital
```
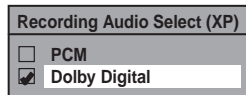
**PCM:**
Records PCM audio for the best quality sound.
**Dolby Digital:**
Records Dolby Digital audio for good quality sound.

**5) Press [SETUP] to exit.**

### Note
• "PCM" stands for Pulse Code Modulation. It changes analog sound to digital sound without compressing audio data.
• When the recording mode is set at other than XP, the unit records "Dolby Digital" audio automatically even if you selected "PCM".

## Setting Aspect Ratio for Video Mode Recording

DVD
~RW
VIDEO MODE  DVD
~R
VIDEO MODE

You can set aspect ratio for video mode recording.

**1) Follow step 1 to 2 on "Recording Audio Select(XP)".**

**2) Use [▲ / ▼] to select "Aspect Ratio (Video mode)", then press [ENTER].**

**3) Use [▲ / ▼] to select your desired setting, then press [ENTER].**

```
Aspect Ratio (Video mode)
☑  Auto
☐  4 : 3
☐  16 : 9
```
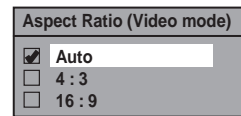
**Auto (default)**: It will be recorded with whichever the ratio that the program you started to record are broadcasted with.
**4:3** : Recorded in the aspect ratio of 4:3.
**16:9** : Recorded in the aspect ratio of 16:9.

**4) Press [SETUP] to exit.**

### Note
• For DVD-RW VR mode, the image will be recorded in whichever the ratio that the program you record are broadcasted with, regardless of the "Aspect Ratio (Video mode)" setting.
• For DVD+RW/+R, the image will always be recorded in aspect ratio of 4:3.

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# BASIC RECORDING & ONE-TOUCH TIMER RECORDING

DVD
-RW
Video Mode    DVD
-RW
VR Mode    DVD
-R
Video Mode    DVD
+RW    DVD
+R

Follow the steps to record TV programs.
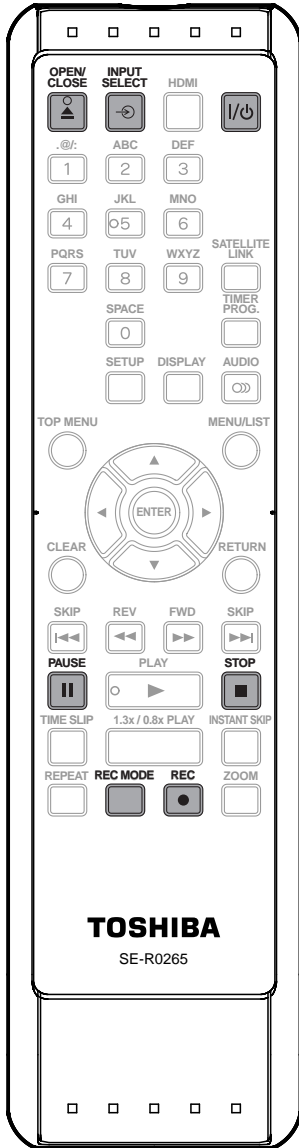
**1** **Press [I/ ☉ ON/STANDBY].**
Turn on the TV and be sure to select the input to which the unit is connected.

**2** **Press [OPEN/CLOSE ▲] to open the disc tray and insert your disc with its label facing up.**

Align the disc to the disc tray guide.
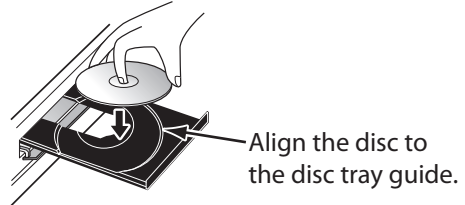
**3** **Press [OPEN/CLOSE ▲] to close the disc tray.**

> **It may take awhile to load the disc completely.**

- When inserting a brand-new DVD-RW or DVD+RW, the unit automatically starts to format.
- If titles have been recorded on the disc, the title list is displayed. Press **[STOP ■]** to exit the title list.

**4** **Press [REC MODE] repeatedly to select a recording mode.**
Refer to "Recording Mode" on page 33.

SP ◖ 1:53
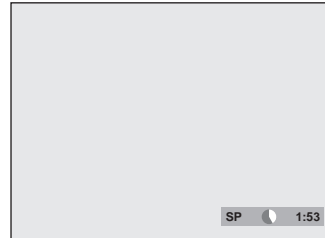
**5** **Press [INPUT SELECT ⊷] to select the appropriate external input position (L1/L2) to which your external tuner is connected. Then select the desired channel to record on the external tuner.**

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# BASIC RECORDING & ONE-TOUCH TIMER RECORDING

## 6 Press [REC ●] to start recording.
"●" will be displayed for 5 seconds.

```
                                    SP  ◖◗  1:53
●
```
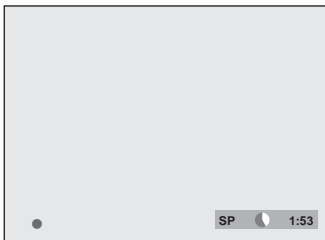
Press **[PAUSE ❙❙]** to pause recording.
Press **[PAUSE ❙❙]** or **[REC ●]** again to restart recording.

### To set one-touch timer recording (OTR)...

This is a simple way to set the recording time in blocks of 30 minutes.

Press **[REC ●]** repeatedly until the desired recording time (30 minutes to 8 hours) appears on the TV screen. One-touch timer recording will start.

```
●   0:30
                    0:30
(normal recording)         1:00
            8:00       7:30
```
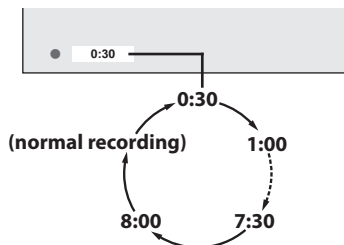
• To change the recording length during one-touch timer recording, press **[REC ●]** repeatedly until the desired length appears.

• To cancel one-touch timer recording within the specified time, press **[STOP ■]**.

## 7 Press [STOP ■] to stop recording.
The recorded title will be included in the title list. (Refer to "Guide to a Title List" on page 66.)
e.g.) DVD+R/DVD-RW/-R

```
Wait for a moment  ▮▮▮▮▮▮▮▮▮▮▮▮ 90%
```
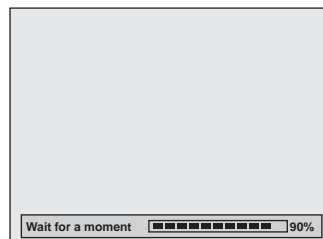
**This operation may take awhile to be completed.**

### Note
• When you press **[REC ●]**, recording starts immediately and continues until the disc is full or you stop recording.
• When the unit clock has not been set, the space for a date and time of title names will be blank.
• You cannot change the recording mode during the recording pause mode.

### Note for one-touch timer recording
• The remaining recording time will be displayed on the front panel display during one-touch timer recording. Press **[DISPLAY]** to see it on the TV screen.
• Unlike the timer recording, you can perform the following operations during one-touch timer recording.
  - Turning the unit into the standby mode (One-touch timer recording will be canceled.).
  - Using **[REC ●]** or **[STOP ■]** on the remote control.
• You cannot use the pause function during one-touch timer recording.
• When one-touch timer recording is finished and the power is turned into the standby mode, the unit will switch to the timer-standby mode automatically if a timer recording has been programmed. Press **[I/⏻ ON/STANDBY]** to cancel the timer-standby mode to use the unit continuously.

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# TIMER RECORDING

DVD -RW Video Mode  DVD -RW VR Mode  DVD -R Video Mode  DVD +RW  DVD +R

You can program the unit to record up to 12 programs within a month in advance. Daily or weekly program recordings are also available.

**Before recording, make sure**
• Connect the external tuner to either L1 or L2 and set it to output audio/video signals when it comes to the time you want to start recording.
• Do not change the external tuner's channel while you are recording. You cannot watch one channel and record another at the same time.
• Set the clock before setting a timer programming.
• Insert a recordable disc with enough recordable space.
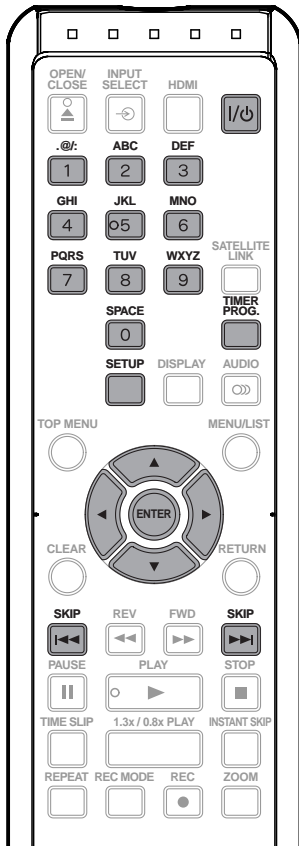
## Guide to Timer Programming Display

```
3            1           2

  Timer Programming
  JAN/ 2/09  1:00 AM L1 SP
  SP  (1:00)              THU JAN/01 10:00AM

  Date     Start    End     L1/L2
  JAN/02   1:00AM   2:00AM  L1
           New Program



                                    1/1

4                                   5
```

1. Title of a Timer Program (Contains date, time, external input, recording mode of the program)
2. Current date and time
3. Recording mode and length of the recording
4. Timer program list
5. Total number of pages and current page (2 pages maximum)

**1** Press [TIMER PROG.].

**2** Use [▲ / ▼] to select "New Program", then press [ENTER].

```
  Timer Programming


                       THU JAN/01 10:00AM
  Date     Start    End     L1/L2
           New Program




                                    1/1
```
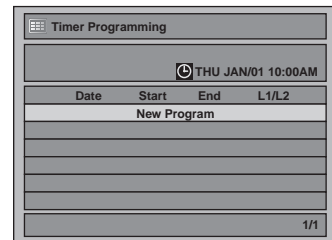
• If there are 6 or more programs, use [SKIP I◄◄ / ►►I] to change pages.

---

## Note

• **If you have not set the clock yet:**

"Clock Setting" menu will appear instead of the timer programming list at step 1. Continue with the step 3 in "Clock Setting" on page 25 before setting a timer programming.

• Use [◄ / ►] to move the cursor to the left and the right in "Timer Programming" menu.

• You cannot make a program whose recording time exceeds 12 hours.

• Cancel the timer-standby mode by pressing [I/ ⏻ ON/STANDBY] before operation. When finished operating, press [I/ ⏻ ON/STANDBY] to resume the timer-standby mode.

**3** Use [▲ / ▼] to enter the date, then press [▶].

| Date | Start | End |
|------|-------|-----|
| JAN/02 | - - : - - | - - : - - |
| L1/L2 | Mode | |
| L1 | SP | |

SP ◗ 2 : 00

JAN/01
↓
Daily
↓
MON-SAT
↓
MON-FRI
↓
SAT
↓
FRI
↓
SUN
↓
JAN/31
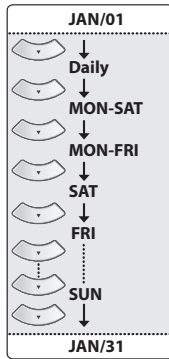
When pressing [▼] at the current date, the date will change as follows.

e.g.) January 1st

### *Auto recording mode select...*
When "Auto" is selected as a recording mode, the unit calculates how much time is available on the disc and determines the appropriate recording mode to complete recording the program.

| Date | Start | End |
|------|-------|-----|
| JAN/02 | 1 : 00AM | 2 : 00AM |
| L1/L2 | Mode | |
| L1 | Auto | |

Auto ◗ 1 : 00

- "Auto" is only available for one program in the timer program list.
- The recording may be cut short, when the available recording space of the disc is too limited.

**4** Use [▲ / ▼ / ◀ / ▶] or [the Number buttons] to enter the start and end time, then press [▶].

| Date | Start | End |
|------|-------|-----|
| JAN/02 | 1 : 00AM | - - : - - |
| L1/L2 | Mode | |
| L1 | SP | |

SP ◗ 2 : 00

- You cannot make a program whose recording time exceeds 12 hours.

**5** Use [▲ / ▼] to select an appropriate external input (L1/L2) to which your external tuner is connected, then press [▶].

| Date | Start | End |
|------|-------|-----|
| JAN/02 | 1 : 00AM | 2 : 00AM |
| L1/L2 | Mode | |
| L1 | SP | |

SP ◗ 1 : 00

**6** Use [▲ / ▼] to select a recording mode.

| Date | Start | End |
|------|-------|-----|
| JAN/02 | 1 : 00AM | 2 : 00AM |
| L1/L2 | Mode | |
| L1 | SP | |

SP ◗ 1 : 00
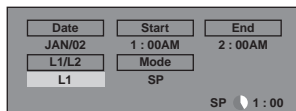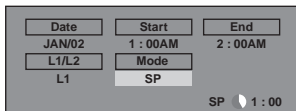
Refer to "Recording Mode" on page 33.
- You can check the remaining recordable space of the disc when you select the recording mode.

| Date | Start | End |
|------|-------|-----|
| JAN/02 | 1 : 00AM | 2 : 00AM |
| L1/L2 | Mode | |
| L1 | SP | |

SP ◗ 1 : 00

**7** Press [ENTER] when all items are entered.
After displaying an instructive message for 10 seconds, timer program list will appear.

Press ON/STANDBY to Timer Standby mode.
Ensure the external source is turned to the correct channel.

↓

▢ Timer Programming

JAN/ 2/09 1:00 AM L1 SP
SP (1:00)          🕐 THU JAN/01 10:00AM

| Date | Start | End | L1/L2 |
|------|-------|-----|-------|
| JAN/02 | 1:00AM | 2:00AM | L1 |

Your program setting is stored.
- To set another program, repeat steps 2 to 7.
- To exit, press **[TIMER PROG.]** or **[SETUP]**.
- When 2 or more programs are overlapped, "Timer program overlapped" appears, and the overlapped program will be displayed in blue. To correct the timer program refer to "Checking, canceling, or correcting the timer programming information" on page 40.

**8** Press [I/ ⏻ ON/STANDBY] to set a timer programming.
🕐 will appear on the front panel display, while this unit waits to make the recording.

🕐

10:00

# TIMER RECORDING

## To stop the timer recording in progress

**1) Press [STOP ■] on the remote control.**
   Confirmation message will appear.

**2) Select "Yes", then press [ENTER].**

• To stop the timer recording immediately, press
   [■ STOP] on the unit.

## Checking, canceling, or correcting the timer programming information

**1) Press [I/⏻ ON/STANDBY].**

**2) Press [TIMER PROG.].**

**3) Check the information on the list you want to edit.**

```
┌─────────────────────────────────┐
│ ▦ Timer Programming             │
│ JAN/ 2/09  1:00 AM  L1 SP       │
│ SP  (1:00)          🕐 THU JAN/01 10:00AM │
│                                 │
│   Date      Start    End   L1/L2│
│   JAN/02    1:00AM  2:00AM   L1 │
│          New Program            │
│                                 │
│                                 │
│                                 │
│                            1/1  │
└─────────────────────────────────┘
```
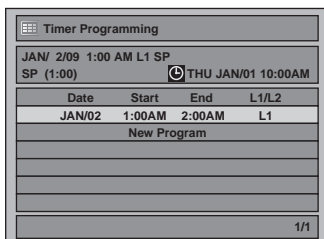
**4-A) To delete the timer program:**
   **1** Use [▲ / ▼] to select the program you want to
       delete, then press [ENTER].
   **2** Use [▲ / ▼] to select "Delete", then press
       [ENTER].
       Selection menu will appear.
   **3** Use [▲ / ▼] to select "Yes", then press [ENTER].

**4-B) To correct the timer program:**
   **1** Use [▲ / ▼] to select the program you want to
       correct, then press [ENTER].
   **2** Use [▲ / ▼] to select "Program Change", then
       press [ENTER].
   **3** Correct the timer program by using
       [▲ / ▼ / ◄ /►], then press [ENTER].

**5) Press [TIMER PROG.] to exit.**

**6) Press [I/⏻ ON/STANDBY] to return to the timer
   standby mode.**

### Note
• Press **[TIMER PROG.]** to check the timer recording in
  progress.
  When the timer recording is proceeding, that
  program will be highlighted in red. In this case, you
  cannot select any other program.

## If the timer program did not complete correctly, the error number appears in the timer programming list.

```
┌─────────────────────────────────┐
│ ▦ Timer Programming             │
│                                 │
│                 🕐 THU JAN/01 10:00AM │
│   Date      Start    End   L1/L2│
│ E41 JAN/02  1:00AM  2:00AM   L1 │
│          New Program            │
│                                 │
│                                 │
│                                 │
│                            1/1  │
└─────────────────────────────────┘
```
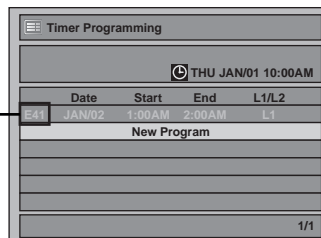
**Each error number means:**

| E1-22 E37-39 | Recording error other than below | E40 | Some portion has not been recorded because of program overlapping. Recording did not start at the start time. |
|---|---|---|---|
| E23-24 | Unrecordable disc | | |
| E25-28 | Copy prohibited program | | |
| E29 | Disc protected | E41 | Power failed |
| E30 | Disc full | E42 | No disc when recording |
| E31-32 | Already 99 titles recorded | E43 | Already 49 titles recorded |
| E33 | Already 999 chapters recorded | E44 | Already 254 chapters recorded |
| E34 | No space for Control information | E45 | Copy prohibited program |
| E35 | PCA full *1 | E46 | It is impossible to record additionally on a disc recorded by other units when setting "Make Recording Compatible" to "OFF". |
| E36 | Already finalized video format disc | | |

• A program with the error number is grayed in the timer
  programming list.
• Once the timer programming list with error line(s) is
  displayed, or after canceling and setting again the timer
  standby mode, the program line(s) with error will be
  cleared.

*1 PCA is a disc's space reserved for recording test.

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# TIMER RECORDING

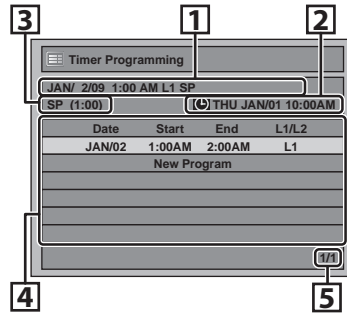## Hints for Timer Recording

- If there is a power failure or this unit has been unplugged for more than 30 seconds, the clock setting and all timer programming will be lost.
- If a disc is not inserted or if a inserted disc is not recordable (finalized DVD-RW/-R, finalized DVD+RW, a fully recorded disc, etc.), ⏱ on the front panel display flashes and timer recording cannot be performed. In some cases, ⏱ will appear momentarily around the start point as the unit attempts to record. Please insert a recordable disc.
- When all the timer recording is completed, ⏱ flashes. To play back or eject the recorded disc, press **[I/Ⓞ ON/STANDBY]** first, then select the recorded title and press **[PLAY ▶]**, or **[OPEN/CLOSE ▲]** to remove the disc.
- During timer recording or timer standby mode (⏱ will appear), any operations on the unit will not be available. To make these operations available, press **[STOP ■]** or **[■ STOP]** to stop the timer recording or **[I/Ⓞ ON/STANDBY]** to cancel timer standby mode (⏱ will disappear).

- To cancel the timer standby mode, press **[I/Ⓞ ON/STANDBY]**.
- When the starting and the ending time are the same, "Exceeds 12 hours" appears and the program setting will not be accepted.
- When the programmed starting and ending time are earlier than the current time, the setting will not be accepted.
- If the starting time is earlier and the ending time is later than the current time, the recording will start right after **[I/Ⓞ ON/STANDBY]** is pressed.
- "Press ON/STANDBY for timer recording" will appear on the TV screen 5 minutes before the programmed starting time.

## The Priority of Overlapped Settings

This unit records the programs according to priority if the timer programmings are overlapped. The timer programming set previously has priority.
A timer recording of lower priority will be canceled or start from the middle.
Check the overlapped timer programmings and change the priority if necessary.

■ **When the starting time is the same:**
A program set previously (PROG. A) has priority.



The first 2 minutes (at the longest) will be cut off.
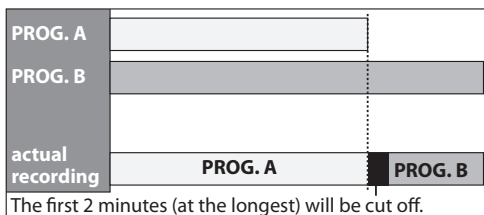
■ **When the starting time and the ending time for each programs are different:**
A program that has earlier start time has priority.



The first 2 minutes (at the longest) will be cut off.
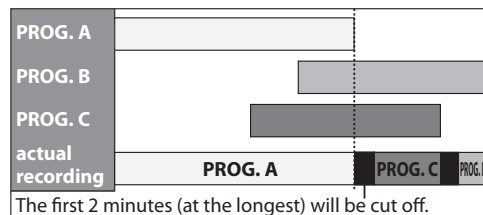
■ **When the recording time is partially overlapped:**
PROG. A will start after PROG. B is complete to be recorded.



The first 2 minutes (at the longest) will be cut off.
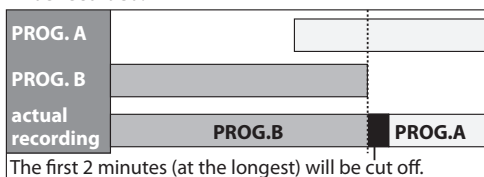
■ **When the recording time is entirely overlapped:**
PROG.A will not be recorded.
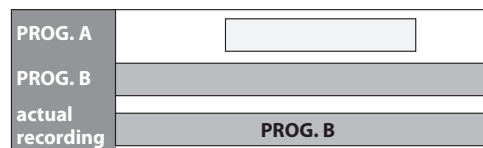


### *Note for DVD recording*

- When the recording time of 2 programs are overlapped, or the end time of a program and the start time of another program is the same, the first 2 minutes (at the longest) of the subsequent program will be cut off.
- If the cut-off portion comes up to 3 minutes or more, this program will be displayed with errors number E40 in the timer programming list.

■ **When the end time of the programming currently being recorded and the start time of the subsequent program are same:**
The beginning of the PROG. B may be cut off.



The first 2 minutes (at the longest) will be cut off.

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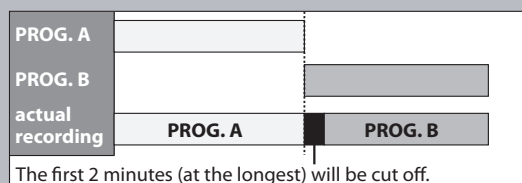
You can set the unit to start recording whenever it detects the video signal from the external tuner.

**Preparing for the satellite link timer recording:**

**Preparation on the tuner**

• The external tuner should be equipped with some kind of timer function. Using timer function of the tuner, set it to output audio/video signals when it comes to the time you want to start recording, and stop output audio/video signals when it comes to the time you want to finish recording. Refer to the tuner's manual on how to set the timer.

• Make sure to set the satellite link standby mode when you finish setting.

**Preparation on this unit**

• You must let the unit know which video input jack you are using before making a recording.
Refer to "SETTINGS FOR THE VIDEO INPUT" on page 26.

**1** Select the desired recording mode. (Refer to "Recording Mode" on page 33.)

**2** Press [SATELLITE LINK].
In a second, the unit will be turned into the standby mode automatically as it goes into the satellite link standby mode.

**To cancel the satellite link function while in the satellite link standby mode:**
Press [SATELLITE LINK] or [I/ᶜ ON/STANDBY].
**To cancel the satellite link function while the satellite link recording is in progress:**
Press [STOP ■].

TOSHIBA

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# SATELLITE LINK

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Connections

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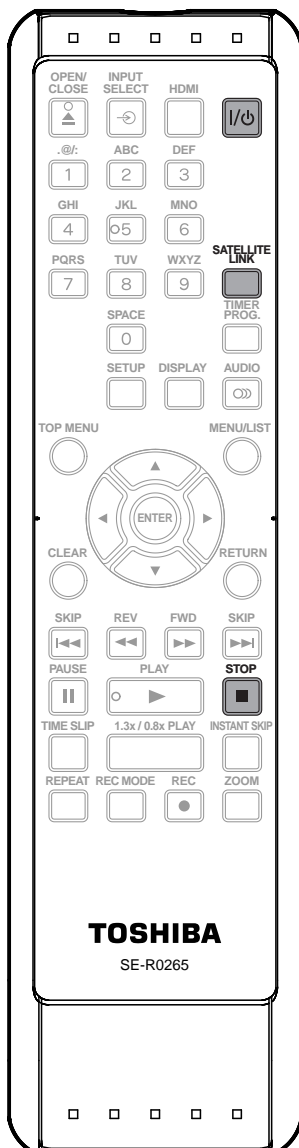
### Note

- If the signal of external input breaks up over 5 seconds, satellite link function will be canceled.
- You cannot set the start or the end time for the satellite link timer recording on this unit.
- Recording picture will be distorted if the copy protection signal is being detected during satellite link timer recording.
- You can record the satellite link by using S-video input jacks on the rear panel. Refer to page 44 for more information.
- When a regular timer recording and the satellite link timer recording are overlapped, those recordings are recorded as illustrated below.

| example 1 | | example 2 | | example 3 | |
|---|---|---|---|---|---|
| timer recording | | timer recording | | timer recording | |
| satellite link | | satellite link | | satellite link | |
| actual recording | | actual recording | | actual recording | |
| The first 2 minutes (at the longest) will be cut off. | | | | The first 2 minutes (at the longest) will be cut off. | |

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# SETTINGS FOR AN EXTERNAL DEVICE

## Connection to an External Device

Connect the external device properly to the unit by using input jacks either L2 (Front) or L1 (Rear).
When connecting an external device of monaural output to this unit, use AUDIO L jack of L2 (Front).
Use S-video or the RCA audio/video cables for this connection.
When connecting a DVC (digital video camcorder), use the DV IN jack on the front panel instead of S-VIDEO IN or VIDEO IN jack.
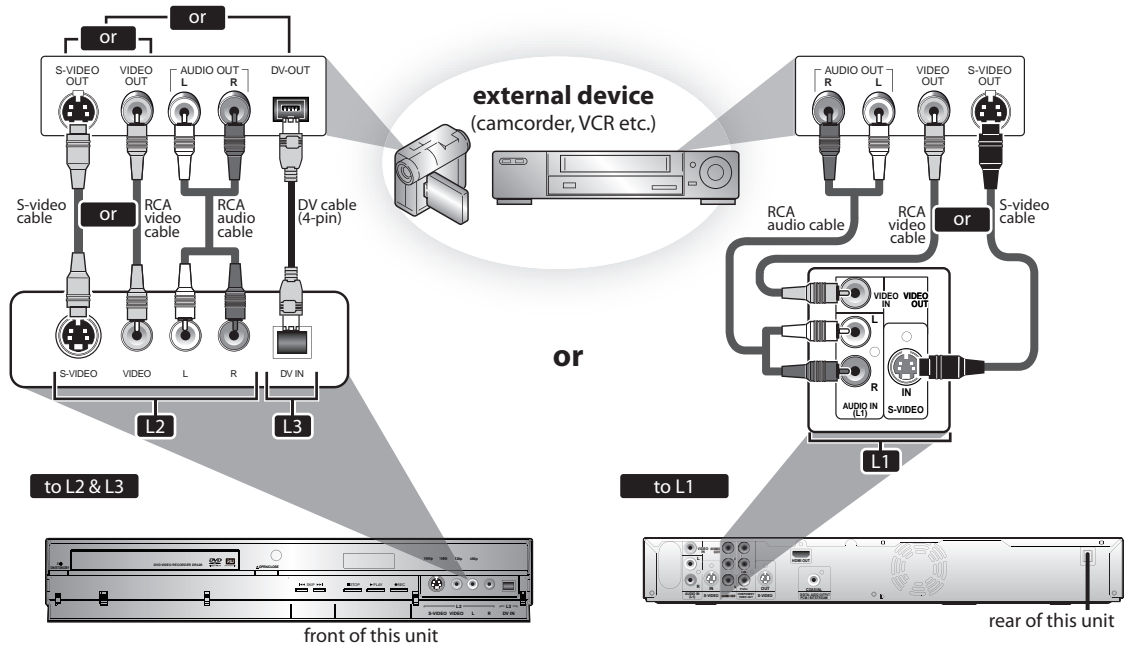


front of this unit

rear of this unit

**Supplied cables used in this connection are as follows:**

• RCA audio cable (L/R) x 1
• RCA video cable x 1
Please purchase the rest of the necessary cables at your local store.

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# SETTINGS FOR AN EXTERNAL DEVICE

## Recording from an External Device

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DVD -RW VIDEO MODE   DVD -RW VR MODE   DVD -R VIDEO MODE   DVD +RW   DVD +R

Before recording from an external device, refer to the instructions for the connection on page 44.
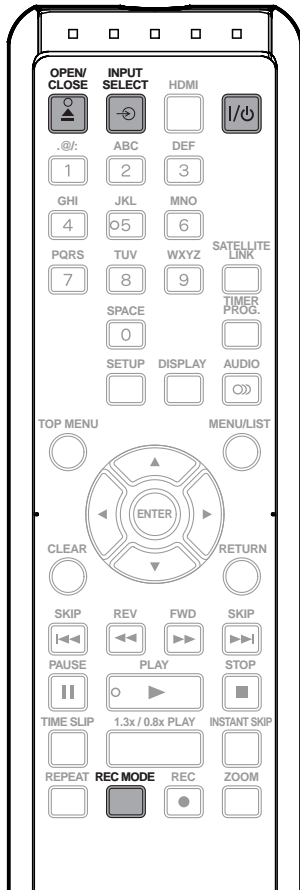
**1**
Turn on the TV and press [I/⏻ ON/STANDBY], and be sure to select the input of the TV to which the unit is connected.

**2**
Press [OPEN/CLOSE ▲] to open the disc tray. Place the disc to record properly. Press [OPEN/CLOSE ▲] again to close the disc tray.

It takes awhile to load the disc.

**3**
Select the input of the unit which the external device is connected. (L1, L2 or DV(L3))
• To use the input jacks on the rear of this unit; Select "L1 (Rear)" by using **[INPUT SELECT ⏏]**.
• To use the input jacks on the front of this unit; Select "L2 (Front)" or "L3 (DV-IN)" by using **[INPUT SELECT ⏏]**.

**4**
Press [REC MODE] repeatedly to select a recording mode.
Refer to "Recording Mode" on page 33.

**5**
Press [● REC] on the unit to start recording.

**6**
Start playback on the external device to record from.

**7**
Press [■ STOP] on the unit to stop recording.

This operation may take awhile to be completed.
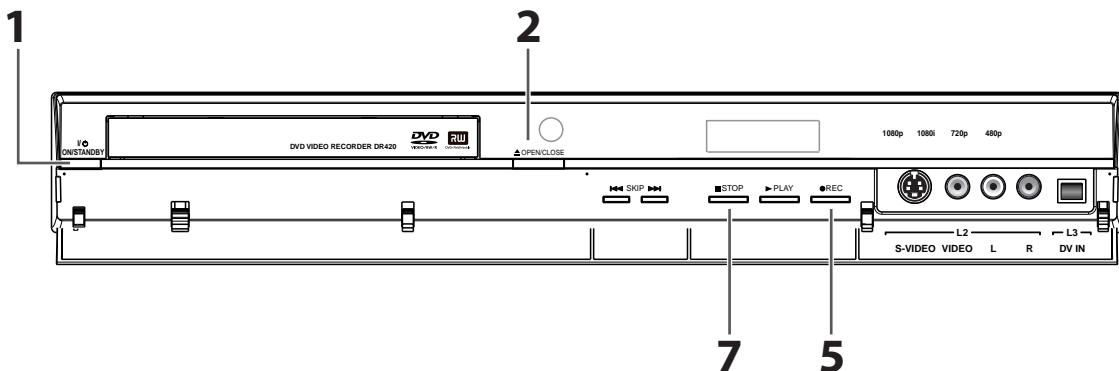
**EN 45**

## Guide to DV and On-Screen Display

This function helps you to easily dub the contents of the DVC (digital video camcorder) to this unit.

You can control basic operations of the DVC from the remote control of this unit such as playback, fast forward or reverse and stop all operations if the DVC is in video mode. Use the DV cable that has 4-pin input jack and is compliance with the IEEE1394 standards. When you connect to DV IN jack on the front of this unit, select "L3 (DV-IN)" position by using **[INPUT SELECT ⊖ ]** on the remote control and press **[DISPLAY]** to show the DV dubbing information for the operation of your DVC.

**When the DVC is in video mode...**

| 1 |
| --- |

1/ 1 C 1/ 1
-RW VR ORG

| 2 | Control DVD |
| --- | --- |
| DV Audio Stereo1 |
| Start Rec |

L3 (DV-IN)
AB-1234
0:12:34

SP 1:00

| 3 | 4 |
| --- | --- |

The menu changes according to what mode of DVC.
Switch the mode on the DVC to playback mode for the dubbing information.

**When the DVC is not in camera mode...**

1/ 1 C 1/ 1
-RW VR ORG

L3 (DV-IN) | 5 |
AB-1234 | 6 |
0:12:34

SP 1:00

| 7 | 6 |
| --- | --- |
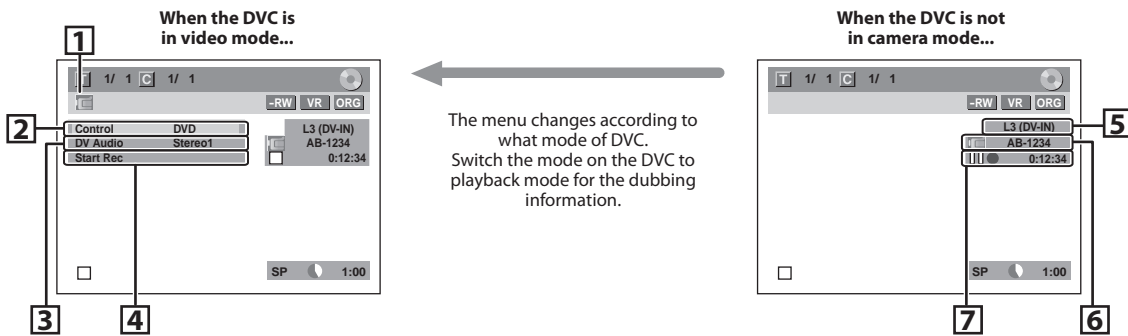
**The following instructions are described with the operations using the remote control of this unit.**

**1. DV icon**

**2. Indicator of active device**
- When the "Control" is highlighted, press **[ENTER]** to display the item selection. Use **[▲ / ▼]** to select the device you wish to operate, then press **[ENTER]** to activate.
- Select "DVD" to control this unit.
- Select "DVC" to control your DVC.

**3. Recording audio mode**
- Other than the DVC is in stop mode, the "DV Audio" can be selected. Press **[ENTER]** to display the item selection and then use **[▲ / ▼]** to select the audio you wish to output. Press **[ENTER]** again to activate.
- Select "Stereo1" to dub the stereo sound.
- Select "Stereo2" to dub the sound with after recording sound.
- Select "Mix" to dub the stereo1 and stereo2.

**4. Indicator of dubbing function**
- When the unit is ready for dubbing, "Start Rec" will appear.
- When the unit is in dubbing, "Pause Rec" will appear.

**5. Channel position**
- When you select "L3 (DV-IN)" by using **[INPUT SELECT ⊖]**, "L3 (DV-IN)" will appear.

**6. Product name of your DVC**
- If the unit cannot recognize the input signal from the DVC or the unknown product, "No Device" or "****" will appear instead.

**7. Status of the current operation and the time counter**

Each icon means (Available icons may vary depending on the DVC):

- DVC is in stop mode.
- DVC is in playback mode.
- DVC is in pause mode.
- DVC is fast forwarding. (standard speed)
- DVC is fast forwarding. (faster than above)
- DVC is fast forwarding. (faster than above)
- DVC is slow forwarding. (standard speed)
- DVC is slow forwarding. (faster than above)
- DVC is slow forwarding. (faster than above)

- DVC is fast forwarding. (in stop mode)
- DVC is fast reversing. (in stop mode)
- DVC is fast reversing. (standard speed)
- DVC is fast reversing. (faster than above)
- DVC is fast reversing. (faster than above)
- DVC is in slow reverse playback.
- DVC is in recording.
- DVC is in recording pause mode.

# DV DUBBING

## DVC to DVD Dubbing

DVD -RW VIDEO MODE  DVD -RW VR MODE  DVD -R VIDEO MODE  DVD +RW  DVD +R

Before recording from DVC, see page 44 for connection instructions.

**2** Press [REC MODE] repeatedly to select a recording mode.
(Refer to "Recording Mode" on page 33.)

**3** Press [DISPLAY].

**4** With "Control" highlighted, press [ENTER] to display the available devices to control with the remote control of this unit. Use [▲ / ▼] to select "DVC", then press [ENTER].

```
T  1/ 1   C  1/  1
                              -RW  VR  ORG
Control      DVD              L3 (DV-IN)
DV Audio     Stereo1          AB-1234
Start Rec                         0:12:34


                             XP      1:00
```
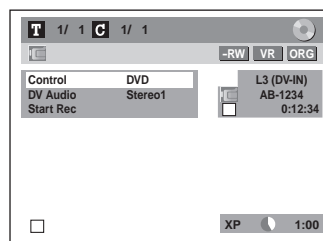
Now you can operate your DVC with the remote control of this unit.

**5** Press [PLAY ▶] to start playing back the DVC, and find the point where you wish to start dubbing.
Then, press [STOP ■] when you come to the desired start point.

**6** Use [▲ / ▼] to select "Start Rec", then press [ENTER].
The dubbing will start.

**7** To stop dubbing;
Use [▲ / ▼] to select "Control", then press [ENTER].
Use [▲ / ▼] to select "DVD", then press [ENTER].
Then press [STOP ■].

**Preparing for DV to DVD dubbing:**
• Insert a recordable disc and make sure your DVC is in video mode.

**1** Use [INPUT SELECT ⊖] to select "L3 (DV-IN)".

```
                    L3 (DV-IN)
                    AB-1234
                    0:00:00
```

(Remote control)
TOSHIBA
SE-R0265

## *Note for DV dubbing*

- If you press **[PAUSE❙❙]** at step 5, the tape will rewind to the point a few seconds preceding the paused point.
- The unit does not send out the output signal to DVC.
- For the proper operation, connect DVC to the unit directly. Do not connect this unit and DVC via any other unit.
- Do not connect more than 1 DVC.
- The unit can only accept DVC. Other DV device such as cable/satellite box or D-VHS VCR cannot be recognized.
- If no video signal is detected from the DVC during DVC to DVD dubbing, the recording will be paused and "●" will flash on the TV screen. The recording will resume when the unit detects the video signal again.
- When the DVC is in camera mode, refer to "Guide to DV and On-Screen Display" on page 46.
- You cannot dub from DVC during timer standby mode.
- During timer standby of either component, you cannot select L3(DV-IN) even on the component which is not in timer standby.
- Date / time and cassette memory data will not be recorded.
- Pictures with a copy-guard signal cannot be recorded.
- A DV terminal is a terminal that can use the transmission mode conforming to the IEEE 1394 standards called "Fire Wire". It serves as the interface that connects the PC and peripheral device such as "i.LINK" (registered trademark of SONY). It enables digital dubbing between DV devices with little degradation.

# INFORMATION ON PLAYBACK

## Structure of Disc Contents

The contents of DVD are generally divided into titles, and the titles are subdivided into chapters.
Audio CDs are divided into tracks.
Data disc contains MP3/JPEG are divided into folders, and the folders are subdivided into files.

**DVD**

Title 1 — Chapter 1, Chapter 2
Title 2 — Chapter 1, Chapter 2, Chapter 3

**Audio CD**

Track 1, Track 2, Track 3, Track 4, Track 5

**MP3/JPEG**

folder 1 — file 1, file 2
folder 2 — file 3, file 4, file 5
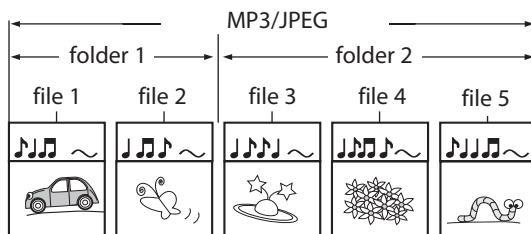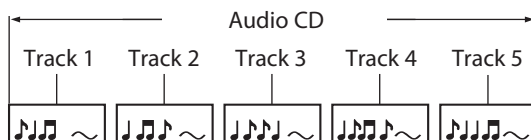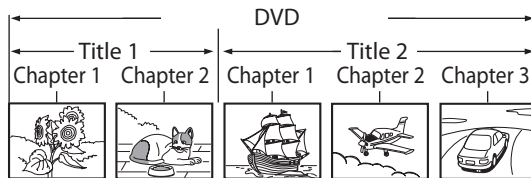
Title: Divided contents of a DVD video. Roughly corresponds to a story title in short stories.

Chapter: Divided contents of a title. This corresponds to a chapter in a story.

Track: Divided contents of an audio CD.

Folder: Divided contents of a MP3/JPEG data disc. Consists of number of files.

Each title, chapter, or track, folder or file is assigned a number, which is called "title number", "chapter number", "track number", "folder number" or "file number" respectively.
Some discs may not have these numbers.
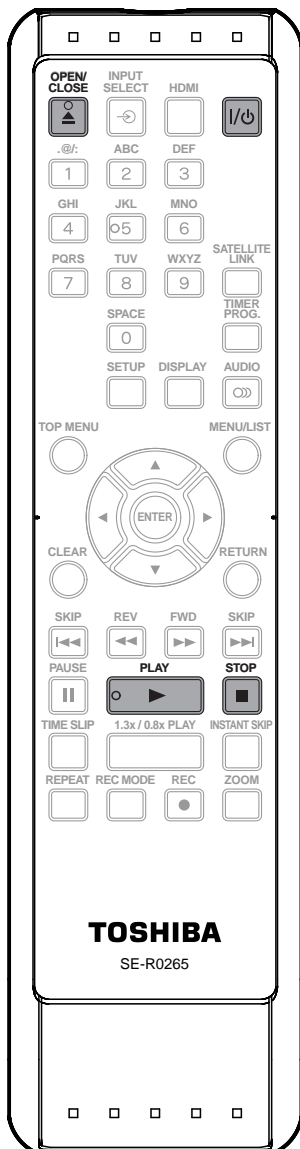
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## Direct Playback

DVD
VIDEO

DVD
-RW
VIDEO MODE

DVD
-RW
VR MODE

DVD
-R
VIDEO MODE

DVD
+RW

DVD
+R

**1** **Press [I/ ⏻ ON/STANDBY].**
Turn on the TV and be sure to select the input to which the unit is connected.

**2** **Press [OPEN/CLOSE ▲] to open the disc tray and insert your disc with its label facing up.**

Align the disc to the disc tray guide.
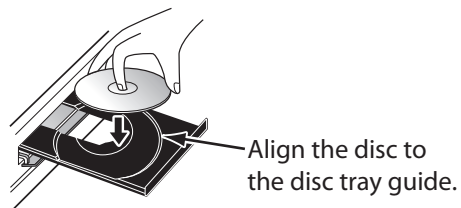
**3** **Press [OPEN/CLOSE ▲] to close the disc tray.**

> It may take awhile to load the disc completely.

**4** **Press [PLAY ▶] to start playback.**
If you are playing back a DVD-video, a menu may appear.
Refer to "Using the Title/Disc Menu" on page 53.

**5** **Press [STOP ■] once to stop playback temporarily.**
• Refer to "Resume Playback" on page 54.

---

*Note*
• Some discs may start playback automatically.

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# BASIC PLAYBACK

## Playback from the Title List
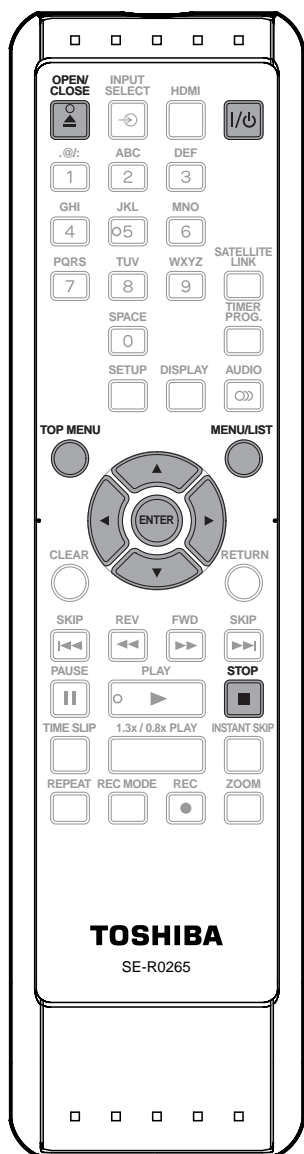
DVD
-RW
Video Mode

DVD
-RW
VR Mode

DVD
-R
Video Mode

DVD
+RW

DVD
+R



TOSHIBA
SE-R0265

**1** **Press [I/ ⏻ ON/STANDBY].**
Turn on the TV and be sure to select the input to which the unit is connected.

### Note
- You can also start playback by pressing **[PLAY ▶]** instead of **[ENTER]**.
- At step 4, you can press **[SKIP ▶▶|]**, or press **[▶]** when the title on the lower right of the title list is highlighted to display the next page, and press **[SKIP |◀◀]**, or press **[◀]** when the title on the upper left of the title list is highlighted to display the previous page.

**2** **Press [OPEN/CLOSE ▲] to open the disc tray and insert your disc with its label facing up.**
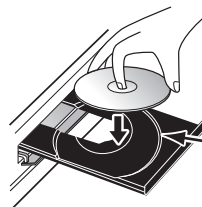


Align the disc to the disc tray guide.

**3** **Press [OPEN/CLOSE ▲] to close the disc tray.**

It may take awhile to load the disc completely.

**4** **Press [TOP MENU].**
Title list will appear.
Press **[MENU/LIST]** to switch Original/Playlist if necessary.
- To exit the title list, press **[STOP ■]**.
- To resume the title list, press **[TOP MENU]**.

**5** **Use [▲ / ▼ / ◀ / ▶] to select a desired title, then press [ENTER].**
e.g.) VR mode DVD-RW original

| ORG Title List |
| --- |
| JAN/ 1/09 1:00AM  L1  SP |
| 1:00AM (0:12:00)      JAN/ 1/09      L1  SP |

```
  1        2        3

  4        5        6

                          1 / 6
```
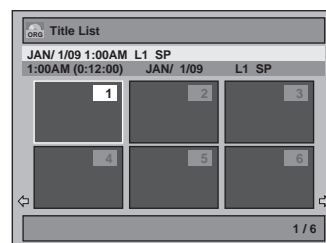
**6** **Use [▲ / ▼] to select "Play From Start", then press [ENTER].**

Play From Start
Edit
Title Delete
Add To Playlist
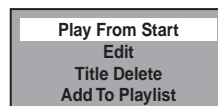
Playback will start.

**7** **Press [STOP ■] once to stop playback temporarily.**
- Refer to "Resume Playback" on page 54.
To eject the disc, press **[OPEN/CLOSE ▲]** to open the disc tray, then remove the disc before turning off the unit.

## Playing Back an Audio CD and a CD-RW/-R with MP3/JPEG Files
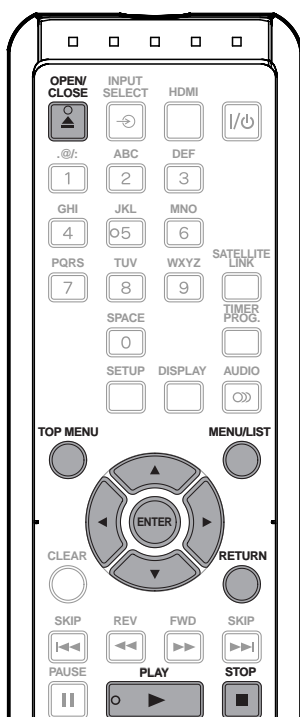
⊘ CD    ⊘ MP3    ⊘ JPEG

**1** Follow steps 1 to 2 in "Direct Playback" on page 50.

**2** Press [OPEN/CLOSE ▲] to close the disc tray.

> It may take awhile to load the disc completely.

When an audio CD is inserted, track list will appear.
When you insert a CD-RW/-R mixed with MP3/JPEG files, the playback media selection screen will be displayed.
For MP3, select "Music", for JPEG, select "Photo". When a CD-RW/-R with MP3/JPEG files is inserted, file list will appear.
• To exit the file list, press **[STOP ■]**.
• To resume the file list, press **[TOP MENU]**.
• Press **[MENU/LIST]** to call up the playback media selection screen in stop mode.

**3** Use [▲ / ▼] to select a desired folder or track/file, then press [ENTER].
e.g.) JPEG file list

```
⊙ File List
DISC NAME
🗀 A                                          ⇧
🗀 B
🖼 JPEG file1
🖼 JPEG file2
🖼 JPEG file3
🖼 JPEG file4
🖼 JPEG file5
🖼 JPEG file6                                 ⇩
                                        1 / 2
```
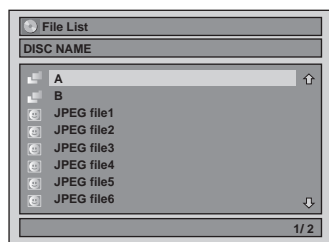
**When selecting track/file:**
Playback will start.

**When selecting folder:**
The files in the folder will appear.
Use **[▲ / ▼]** to select the file or folder you want to play back, then press **[ENTER]**.
• Press **[PLAY ▶]**, **[ENTER]** or **[▶]** to move to any lower hierarchies.
• Press **[◄]** or **[RETURN]** to move back to the previous hierarchy.

**Hints for audio CD tracks and MP3 / JPEG files:**
• Folders are shown by 🗀.
• Audio CD tracks are shown by 🎵.
• MP3 files are shown by 3♪ .
• JPEG files are shown by 🖼 .
• The system can recognize up to 255 folders and, up to 99 tracks/999 files.
• Letters of a file/folder name overflowing the given space will be displayed as "…".
• If there are no files in the folder, "No Files" will be displayed.

**It is recommended that files to be played back in this unit are recorded under the following specifications:**

**<MP3>**
• Sampling frequency          : 44.1 kHz or 48 kHz.
• Constant bit rate           : 112 kbps - 320 kbps.
**<JPEG>**
• Upper limit                 : 6,300 x 5,100 dots.
• Lower limit                 : 32 x 32 dots.
• File size of image maximum : 12 MB.

> *Note*
> • The audio source of MP3 files cannot be recorded as digital sound by an MD or DAT deck.
> • Files whose extension is other than ".mp3(MP3)" or ".jpg / .jpeg(JPEG)" will not be listed.
> • Some unplayable folders or files may be listed due to the recording status.
> • High-resolution JPEG files take longer to be displayed.
> • Progressive JPEG files (JPEG files saved in progressive format) cannot be played back on this unit.
> • The JPEG pictures can also rotate by using [◄ / ►].

This DVD Video Recorder requires discs/recordings to meet certain technical standards in order to achieve optimal playback quality. There are many different types of recordable disc formats (including CD-R containing MP3 files). Not all recordable discs will operate or produce optimal playback quality. The technical criteria set forth in this owner's manual are meant only as a guide. Use of CD-RW for MP3 files is not recommended.

You must obtain any required permission from copyright owners to download or use copyrighted content. Toshiba cannot and does not grant such permission.

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# BASIC PLAYBACK

## Using the Title/Disc Menu

DVD  DVD-RW Video Mode  DVD-RW VR Mode  DVD-R Video Mode  DVD+RW  DVD+R

DVD may contain a title list, which describes the contents of the disc, or a disc menu, which guides you through the available functions in the disc.

1) **Press [TOP MENU] or [MENU/LIST] to call up the title list or disc menu.**

2) **Use [▲ / ▼ / ◄ / ►] to make a selection, and then press [ENTER] to enable your selection.**

3) **Press [STOP ■] to exit the disc menu.**

### Note
- You can select a numbered menu with **[the Number buttons]** also.
- Menus vary among discs. Refer to the information accompanying the disc for details.
- **[MENU/LIST]** or **[TOP MENU]** will not always be effective for all DVDs.

## Pause

1) **During playback, press [PAUSE ❚❚].**
   Playback will be paused and sound will be muted.

```
 ❚❚
```

2) **Press [PLAY ►] to return to the normal playback.**

### Note
- For DVD, set "Still Mode" to "Field" in "Playback" menu if pictures in the pause mode are blurred. (Refer to page 86.)

**EN** **53**

# SPECIAL PLAYBACK

## Resume Playback

You can play back from where you stopped playing back the disc last.

**1) During playback, press [STOP ■].**

The resume message will appear.

> **Resume ON**

**2) Press [PLAY ▶].**

In a few seconds, playback will resume from the point at which it stopped last. You can resume playback at the same point even if you turn the unit into the standby mode.

To cancel the resume playback and start playing back the disc from the beginning, press **[STOP ■]** again while the playback is stopped.

---

### Note
• For MP3/JPEG files, playback will resume from the beginning of the file at which playback was stopped.

---

## Fast Forward / Fast Reverse Playback

DVD VIDEO | DVD -RW VIDEO MODE | DVD -RW VR MODE | DVD -R VIDEO MODE | DVD +RW | DVD +R

CD | MP3

**1) During playback, press [FWD ▶▶] or [REV ◀◀].**

Every time you press **[FWD ▶▶]** or **[REV ◀◀]**, approximate speed will be changed as follows.
Fast forward or fast reverse playback across titles (for DVD), or files (for MP3 files) is not possible.

40x — 20x — 5x — normal speed playback — 2x — 20x — 40x
(FWD / REV)

For audio CD or MP3 files, approximate speed is fixed at 8x with sound.

**2) Press [PLAY ▶] to return to the normal playback.**

---

### Note
• Forward/reverse speed will be indicated with icons as follows.

forward (approx. speed)
2x:   ▶▶
20x:  ▶▶▶
40x:  ▶▶▶▶

reverse (approx. speed)
5x:   ▶◀
20x:  ▶◀◀
40x:  ▶◀◀◀

---

## Skipping TV Commercials During Playback

DVD VIDEO | DVD -RW VIDEO MODE | DVD -RW VR MODE | DVD -R VIDEO MODE | DVD +RW | DVD +R

You can skip TV commercials to enjoy the recorded programs without interrupting.

**During playback, press [INSTANT SKIP].**
Normal playback will start at 30 seconds ahead from where you press **[INSTANT SKIP]**.
Every time you press **[INSTANT SKIP]**, the searching point will be extended by 30 seconds ahead.
You can press **[INSTANT SKIP]** up to 6 times (180 seconds).

e.g.) Press **[INSTANT SKIP]** once.

> **Instant Skip 30sec.**
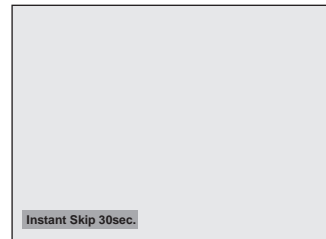
(forwarding 30 seconds)

↓

> ▶
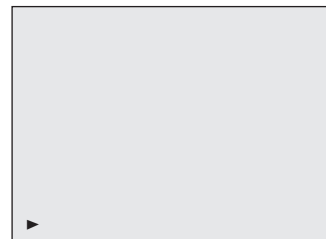
Playback will return to the normal playback.

---

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# SPECIAL PLAYBACK

## Rapid Playback

**DVD** VIDEO **DVD** -RW VIDEO MODE **DVD** -RW VR MODE **DVD** -R VIDEO MODE **DVD** +RW **DVD** +R

**Rapid playback function is available only during playback.**

This function is available only on discs recorded in the Dolby Digital format, and plays back in a slightly faster/slower speed while keeping the sound output.

**1) During playback, press [1.3X / 0.8X PLAY].**

▶x0.8 **:** Press **[1.3X / 0.8X PLAY]** once during playback. Plays back approximately at 0.8 times of normal playback.

▶x1.3 **:** Press **[1.3X / 0.8X PLAY]** twice during playback. Plays back approximately at 1.3 times of normal playback.

▶ **:** Press **[1.3X / 0.8X PLAY]** thrice to play back in normal speed.
No effects.

**2) Press [PLAY ▶] to return to the normal playback.**

### Note
- Audio (language) setting cannot be changed while using this mode.
- This feature may not work at some point in a disc.
- Audio is LPCM (2 channel) during rapid playback.

## Step by Step Playback

**DVD** VIDEO **DVD** -RW VIDEO MODE **DVD** -R VR MODE **DVD** -R VIDEO MODE **DVD** +RW **DVD** +R

**1) During playback, press [PAUSE ❙❙].**
Playback will be paused and sound will be muted.

**2) Press [SKIP ▶▶❙] repeatedly.**
Playback will advance one frame at a time when you press **[SKIP ▶▶❙]** with the sound muted.
To play back step by step backward:
Press **[SKIP ❙◀◀]** repeatedly.
Every time you press the button, the playback will go backward by one frame.
- Press and hold **[SKIP ❙◀◀]** / **[SKIP ▶▶❙]** to reverse/advance continuously.

**3) Press [PLAY ▶] to return to the normal playback.**

## Slow Forward / Slow Reverse Playback

**DVD** VIDEO **DVD** -RW VIDEO MODE **DVD** -RW VR MODE **DVD** -R VIDEO MODE **DVD** +RW **DVD** +R

**1) During playback, press [PAUSE ❙❙]. Then press [FWD ▶▶] or [REV ◀◀].**
Every time you press **[FWD ▶▶]** or **[REV ◀◀]**, approximate speed will be changed as follows. (The sound will remain muted.)

1/4x — 1/8x — 1/16x — pause — 1/16x — 1/8x — 1/3x

**2) Press [PLAY ▶] to return to the normal playback.**

### Note
- Forward/reverse speed will be indicated with icons as follows.
  forward (approx. speed)
  1/16x: ❙▶▶
  1/8x: ❙▶▶▶
  1/3x: ❙▶▶▶▶
  reverse (approx. speed)
  1/16x: ❙▶◀
  1/8x: ❙▶◀◀
  1/4x: ❙▶◀◀◀

## Zoom

`DVD Video` `DVD -RW Video Mode` `DVD -RW VR Mode` `DVD -R Video Mode` `DVD +RW` `DVD +R`
`JPEG`

**1) During playback, press [DISPLAY] or [ZOOM].**
   • If you press **[ZOOM]**, skip to step 3.

**2) Use [◄ / ►] to select** ⊕ **to display the selection menu.**
   e.g.) DVD-video

```
T  1/ 5  C  1/ 5  ⌚  0:01:00 / 1:23:45  ⦿
⊕ ◀)) ▣ ⊞ ⟳ ▦ NR ⊕ ≋        DVD Video
```
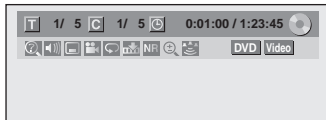
**3) Use [▲ / ▼] to select a desired zoom factor to zoom, then press [ENTER].**

```
T  1/ 5  C  1/ 5  ⌚  0:01:00 / 1:23:45  ⦿
⊕ ◀)) ▣ ⊞ ⟳ ▦ NR ⊕ ≋        DVD Video
                        ⊕ x 1.2
                        ⊕ x 1.5
                        ⊕ x 2.0
```
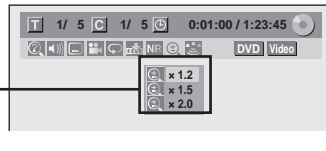
Zoom menu will appear.

There are four options

(x1.0, x1.2, x1.5 and x2.0), these are displayed excluding the current zoom rate.

Zoom area will be displayed.

**4) Use [▲ / ▼ / ◄ / ►] to select a desired zoom position, then press [ENTER].**
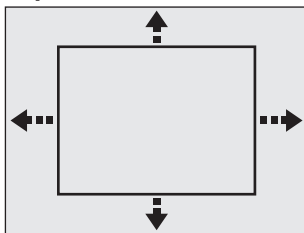
Zoom playback will start.

### Note
• When selecting a smaller factor than the current one, the zoom area will not be displayed.
• To exit the zoom menu, press **[RETURN]** repeatedly.
• To cancel the zoom function, select "x1.0" using **[▲ / ▼]**, then press **[ENTER]** at step 3.
• You cannot slide the zoomed picture on some JPEG files.

## Marker Setting

`DVD Video` `DVD -RW Video Mode` `DVD -RW VR Mode` `DVD -R Video Mode` `DVD +RW` `DVD +R`
`CD`

This feature allows you to assign a specific point on a disc to be called back later.

**1) During playback, press [DISPLAY] to bring up the display menu.**
   **If the display menu is already shown, skip to step 2.**

**2) Use [◄ / ►] to select** 🔖 **to display the marker list.**
   e.g.) DVD-video

```
T  1/ 5  C  1/ 5  ⌚  0:01:00 / 1:23:45  ⦿
⊕ ◀)) ▣ ⟳ ▦ NR ⊕ ≋          DVD Video
```
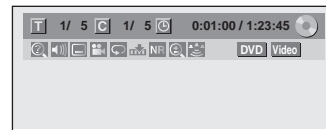
**3) Use [▲ / ▼] to select a desired marker number. When it reaches the desired point, press [ENTER].**

```
T  1/ 5  C  1/ 5  ⌚  0:01:00 / 1:23:45  ⦿
⊕ ◀)) ▣ ⟳ ▦ NR ⊕ ≋          DVD Video
☆ –––
☆ –––
☆ –––
☆ –––
☆ –––
☆ –––
►
```
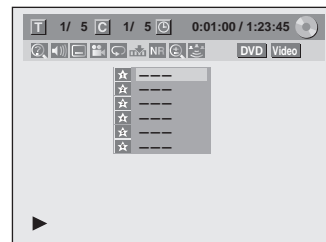
The title (track) number and the time will be displayed.

**4) To return to the marker:**
   **Use [▲ / ▼] to select the desired marker number, then press [ENTER].**

### Note
• To clear a marker, select the marker number to be cleared, then press **[CLEAR]**.
• All markers will be erased when you operate these operations listed below.
– Opening the disc tray
– Turning the unit into the standby mode
– Recording on a recordable disc
• You can mark up to 6 points.

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# SPECIAL PLAYBACK

## Chasing Playback during Recording

**DVD**
-RW
VR MODE

You can play back the already recorded part of the currently recording program without waiting for the recording to the end. **This function works from 1 minute after the start of the recording.**

1) **During recording, press [PLAY ▶].**

Playback will start from the beginning of the program that you are currently recording.

Screen for the current playback:

```
T  6/ 6  C  1/ 1  ⏱  0:01:00 / 1:23:45  ◯
🔍 ◀)) ▭ ↻ ⊞ NF ◉ 🔅            -RW   VR   ORG




●
Resume ON                      LP   ◑   1:01
```
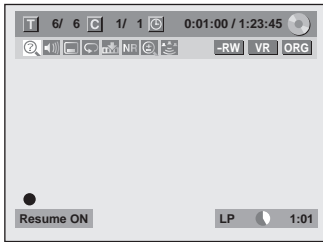
If you play back the fast forward playback and the playback reaches the scene recorded 1 minute before, the forwarding playback will automatically return to the normal playback.

2) **Press [STOP ■] once to stop playback.**

The resume message will appear.

Screen for the current recording:

```
T   6  C    1  ⏱  1:23:45            ◯
🔍 ◀)) ▭ ↻ ⊞ NF ◉ 🔅            -RW   VR   ORG
                                L1 (Rear)



●
Resume ON                      LP   ◑   1:01
```
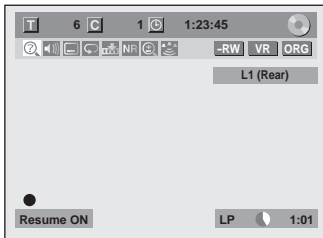
To stop recording, press **[STOP ■]** again.

To cancel the resume, press **[STOP ■]** again.

### *Using [TIME SLIP] ...*

With **[TIME SLIP]**, even if you leave your couch while you are watching TV through this unit, you can come back and watch rest of the program from right where you left at any convenient time with just one button. Please make sure to put VR mode DVD-RW disc, and set the recording mode to LP, EP or SLP.

1) **While viewing a TV broadcast via this unit, press [TIME SLIP].**

This unit start to record the TV broadcast.

2) **Press [TIME SLIP] again.**

Playback will start from the point at which you press **[TIME SLIP]** first while recording continues.

• While viewing the recorded content, you can pause and resume the playback by pressing **[TIME SLIP]**.

3) **Press [STOP ■] once to stop playback.**

To stop recording, press **[STOP ■]** again.

To cancel the resume, press **[STOP ■]** again.

### *Note*

• Playback image may freeze momentarily using this function.
  However, this does not affect the recording.
• The 2x fast forward playback is not available.
• **[REC ●]** is not available during this function.
• You must cancel this function first by pressing **[STOP ■]** once. Then you can use **[REC ●]** to use OTR (one-touch timer recorded) function or change recording time for the OTR.
• "Wait for a moment." will be displayed on the screen if you press **[PLAY ▶]** before 1 minute of recording.
• **This function is available only when you are recording on a DVD-RW in VR mode, with the recording mode LP, EP or SLP.**

## Simultaneous Playback and Recording

*DVD -RW VR MODE*

You can also play back a recorded title during current recording or the timer recording on the same disc.

**1) During recording, press [DISPLAY].**

Screen for the current recording:

```
T    3 C    1    1:23:45        ○
Q ◄))) ⊟ ⟲ NR @          -RW  VR  ORG
                              L1 (Rear)
```
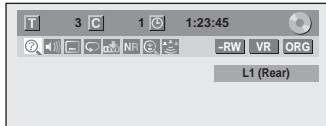
**2) Select icon using [◄ / ►], then press [ENTER].**

The title number next to **T** will be highlighted.

**Title:**

**Enter a desired title number to search using [▲ / ▼] or [the Number buttons], then press [ENTER].**

Selected title playback will start.

**Chapter:**

To move to **C** for chapter, press [►].

**Enter a desired chapter number to search using [▲ / ▼] or [the Number buttons], then press [ENTER].**

Selected chapter playback will start.

If you play back the currently recording program and the playback reaches the scene recorded 1 minute before, the forwarding playback will automatically return to the normal playback.

**3) Press [STOP ■] once to stop playback.**

The resume message will appear.

Screen for the current recording:

```
T    3 C    1    1:30:25        ○
Q ◄))) ⊟ ⟲ NR @          -RW  VR  ORG
                              L1 (Rear)


●
Resume ON                  LP      1:01
```
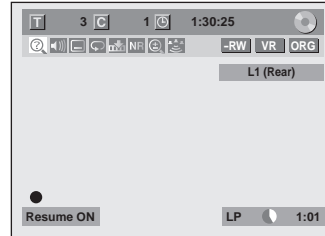
To stop recording, press **[STOP ■]** again.

To cancel the resume, press **[STOP ■]** again.

*Note*

- Playback image may freeze momentarily using this function.
  However, this does not affect the recording.
- The 2x fast forward playback is not available.
- **This function is available only when you are recording on a DVD-RW in VR mode, with the recording mode LP, EP or SLP.**
- Only the titles (chapters) in the original can be selected.
  You cannot select titles from the title list.
- When you stop the playback after the timer recording is completed, the unit will be switched to the timer standby mode if another program has been set (refer to "Hints for Timer Recording" on page 41).

# SEARCH

## Title/Chapter Search

🔵DVD VIDEO 🔵DVD -RW Video Mode 🔵DVD -RW VR Mode 🔵DVD -R Video Mode 🔵DVD +RW 🔵DVD +R

### Using [SKIP ◄◄ ] / [SKIP ►►| ]

1) **During playback, press [SKIP ►►| ] to skip the current title or chapter and move to the next.**

   The title or chapter will move forward by one at a time.

   • If there is no chapter in one title, the current title will be skipped.

   To go back to the beginning of the current title or chapter, press **[SKIP ◄◄ ]**.

   Press it twice in quick successions to go to the previous title or chapter. The title or chapter will move backward one title at a time.

### Using [DISPLAY]

1) **During playback, press [DISPLAY].**

2) **Use [◄ / ►] to select ⑦ , then press [ENTER].**

   e.g.) DVD-video

   | T 1/ 5 | C 1/ 5 | ⌚ 0:01:00 / 1:23:45 ⦿ |
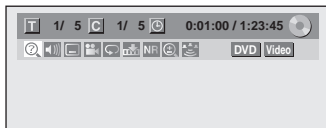
   The number next to T will be highlighted.

3) **Title:**

   **Use [▲ / ▼] or [the Number buttons] to enter a desired title number to search, then press [ENTER].**

   Title search will start.

   **Chapter:**

   **Press [►] to move to the number next to C for chapter.**

   **Use [▲ / ▼] or [the Number buttons] to enter a desired chapter number to search, then press [ENTER].**

   After the search, playback will start automatically.

---

### Note

• In search mode display, total numbers of each search contents (title/chapter/time) are shown as a denominator.

| T 1/ 5 | C 1/ 5 | ⌚ 0:01:00 /1:23:45 ⦿ |

total number of titles

total number of chapters

total time of the title

---

## Track Search

🔵CD 🔵MP3 🔵JPEG
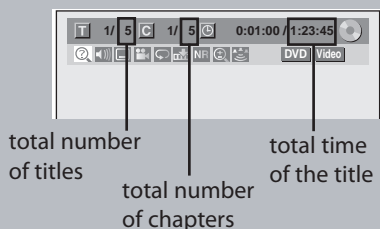
### Using [SKIP ◄◄ ] / [SKIP ►►| ]

1) **During playback, press [SKIP ►►|] to skip the current track/file and move to the next.**

   The track/file will move forward one at a time.

   To go back to the beginning of the current track/file, press **[SKIP ◄◄ ]**.

   (For JPEG files, press it once to go to the previous file.)

   Press it twice in quick successions to go to the previous track/file. The track/file will move backward one at a time.

### Using [DISPLAY]

1) **During playback, press [DISPLAY] to bring up the display menu.**
   **If the display menu is already shown, skip to step 2.**

2) **Use [◄ / ►] to select ⑦ , then press [ENTER].**

   e.g.) audio CD

   | T 1/ 5 | ⌚ 0:00:15 / 0:05:00 ⦿ |

   e.g.) MP3 files

   | T 1/ 5 | ⌚ 0:00:15 ⦿ |
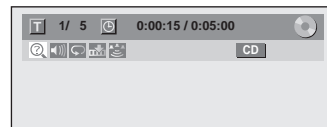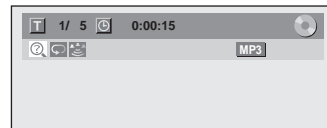
   The number next to T will be highlighted.

3) **Use [▲ / ▼] or [the Number buttons] to enter a desired track/file number to search, then press [ENTER].**

   After the search, playback will start automatically.

---

### Note

• During CD playback, you can enter a track number directly using **[the Number buttons]** for track search without displaying the menu.

---

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# SEARCH

## Time Search

1) **During playback, press [DISPLAY] to bring up the display menu.**
   **If the display menu is already shown, skip to step 2.**

2) **Use [◄ / ►] to select ⓘ , then press [ENTER].**
   e.g.) DVD-video

   | T | 1/ 5 | C | 1/ 5 | ⏲ | 0:01:00 / 1:23:45 | |
   | Q | ◄)) | ⎁ | 🔲 | G̈ | NR | Q | 🔲 | DVD | Video |

   e.g.) audio CD
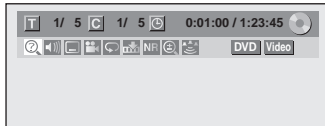
   | T | 1/ 5 | ⏲ | 0:00:15 / 0:05:00 | |
   | Q | ◄)) | G̈ | 🔲 | | CD | |
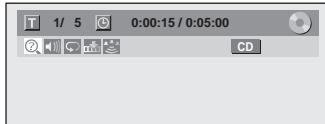
   The number next to **T** will be highlighted.

   To move to the number next to **⏲** , press **[►]**.

   When time search is not available, **⏲** and time counter are not displayed.

3) **Use [▲ / ▼ / ◄ / ►] or [the Number buttons] to enter a desired time to search, then press [ENTER].**
   After the search, playback will start automatically.

---

### *Note*
• Time search is available only in the same track, file or title.

---

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# REPEAT/RANDOM/PROGRAM PLAYBACK/SLIDE SHOW

## Repeat Playback

Available repeat function may vary depending the discs.

1) **During playback, press [DISPLAY] or [REPEAT] to bring up the display menu.**
   **If the display menu is already shown, skip to step 2.**
   • If you press **[REPEAT],** skip to step 3.

2) **Use [◄ / ►] to select ⟳ to display the selection menu.**

```
T 1/ 5  C 1/ 5  ⏱ 0:01:00 / 1:23:45
🔍⊲⊡⊞⟳📊NR🄴🖼          DVD Video
```

3) **Use [▲ / ▼] to select a desired option to repeat, then press [ENTER].**
   The selected repeat playback will start.

   e.g.) DVD-video

   ```
   ✔ OFF
     Title
     Chapter
     A - B
   ```

   e.g.) audio CD

   ```
   ✔ OFF
     Track
     All
     A - B
   ```

   e.g.) MP3/JPEG files

   ```
   ✔ OFF
     Track
     All
     Group
   ```
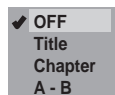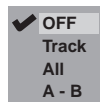
   **Title:**
   The current title will be played back repeatedly.
   **Chapter:**
   The current chapter will be played back repeatedly.
   **All:**
   The current disc will be played back repeatedly.
   **A-B:**
   Desired section can be played back repeatedly.
   1) Use **[▲ / ▼]** to select "A-B", then press **[ENTER]**.
   2) Press **[ENTER]** at the desired starting point A.
   3) Press **[ENTER]** at the desired ending point B.
   **Track:**
   The current track or file will be played back repeatedly.
   **Group:**
   The current folder will be played back repeatedly.

### Note
- Point B for the repeat A-B playback should be set within the same title or track of point A.
- To cancel the repeat playback, select "OFF" at step 3. The repeat setting will also be canceled when you stop playback.
- You cannot select "Group" during the random playback of MP3/JPEG files.
- Chapter/Track repeat will be canceled whenever a Chapter/Track is skipped forward or backward.
- During the A-B repeat, if you reaches the point A with any reverse playback, the reverse playback will be canceled and the A-B repeat playback resumes from point A.

## Random Playback

```
💿 CD   💿 MP3   💿 JPEG
```

You can play back a disc randomly instead of playing back in the original order.

1) **Press [SETUP] in stop mode.**

2) **Use [▲ / ▼] to select "DISC Playback Mode", then press [ENTER].**
   "DISC Playback Mode" menu will appear.
   For MP3, use [▲ / ▼] to select "Music", then press **[ENTER]**.
   For JPEG, use [▲ / ▼] to select "Photo", then press **[ENTER]**.

3) **Use [▲ / ▼] to select "Random Play", then press [ENTER].**
   Random playback will start.
   e.g.) audio CD

   ```
   T 1/ 5  ⏱ 0:00:15 / 0:05:00
   🔍⊲⟳📊🖼              CD  Random
   ```
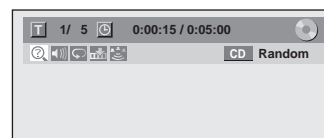
### Note
- To cancel random playback, press **[STOP ■]** twice during random playback. "OFF" appears on the display menu.

## Program Playback

**CD**

You can program the disc to play back in your desired order.

**1) Press [SETUP] in stop mode.**

**2) Use [▲ / ▼] to select "DISC Playback Mode", then press [ENTER].**

"DISC Playback Mode" menu will appear.

**3) Use [▲ / ▼] to select "Program Play", then press [ENTER].**

**4) Use [▲ / ▼] to select a desired track, then press [ENTER] or [▶].**

```
DISC Playback Mode
Program Play

-- → -- → -- → -- → -- → -- → -- → -- → -- → --
-- → -- → -- → -- → -- → -- → -- → -- → -- → --
-- → -- → -- → -- → -- → -- → -- → -- → -- → --
-- → -- → -- → -- → -- → -- → -- → -- → -- → --
-- → -- → -- → -- → -- → -- → -- → -- → -- → --

                              Total    0:00:00
```
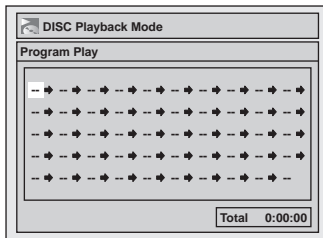
Repeat this step until you program all the desired tracks.

**5) Press [PLAY ▶].**

```
DISC Playback Mode
Program Play

09 → 04 → 10 → 06 → -- → -- → -- → -- → -- → --
-- → -- → -- → -- → -- → -- → -- → -- → -- → --
-- → -- → -- → -- → -- → -- → -- → -- → -- → --
-- → -- → -- → -- → -- → -- → -- → -- → -- → --
-- → -- → -- → -- → -- → -- → -- → -- → -- → --

                              Total    0:31:07
```
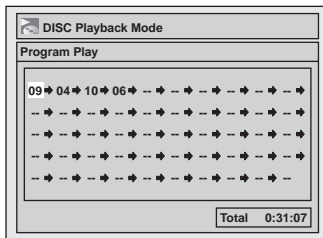
Program playback will start.

### Note
- To erase tracks you selected, press **[CLEAR]** at step 4.
- You can make program settings up to 50 tracks.
- To cancel program playback, press **[STOP ■]** twice during program playback. "OFF" appears on the TV screen.
- You may also select a desired track using **[the Number buttons]** at step 4.

## Slide Show

**JPEG**

You can select the display time between 5 seconds and 10 seconds.

**1) Follow steps 1 and 2 in "Program Playback" on the left.**

**2) Use [▲ / ▼] to select "Photo", then press [ENTER].**

**3) Use [▲ / ▼] to select "Slide Show", then press [ENTER].**

**4) Use [▲ / ▼] to select the display time, then press [ENTER].**

**5) Press [SETUP] to exit.**

### Note
- Large-size JPEG files take a few moments to be displayed.

# SELECTING THE FORMAT OF AUDIO AND VIDEO

You can select the format of audio and video as you prefer depending on the contents of the disc you are playing back.

## Switching Subtitles

**DVD** VIDEO

DVD-video may have subtitles in one or more languages. Available subtitle languages can be found on the disc case. You can switch subtitle languages during playback.

**1) During playback, press [DISPLAY].**

**2) Use [◄ / ►] to select ▭ to display the selection menu.**

e.g.) DVD-video

```
T  1/ 5  C  1/ 5  ◔  0:01:00 / 1:23:45  ◉
Q ◄)) ▭ ▤ C ▦ NR Q ⇄         DVD  Video
```
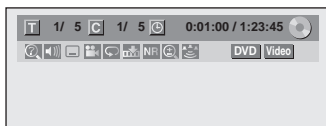
**3) Use [▲ / ▼] to select a desired subtitle language, then press [ENTER].**

```
T  1/ 5  C  1/ 5  ◔  0:01:00 / 1:23:45  ◉
Q ◄)) ▭ ▤ C ▦ NR Q ⇄         DVD  Video
✔  OFF
   1.English
```
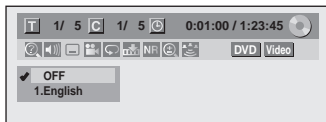
Subtitle will be displayed in the selected language. When "OFF" is selected, subtitle will disappear.

### Note
• Some discs will only allow you to change the subtitle from the disc menu. Press **[MENU/LIST]** or **[TOP MENU]** to display the disc menu.
• If a 4-digit language code appears in the subtitle menu, refer to the "LANGUAGE CODE" on page 98.

## Switching Audio Soundtrack

**DVD** VIDEO  **DVD** -RW VR MODE  **CD**

When playing back a DVD-video recorded with 2 or more soundtracks (these are often in different languages), you can switch them during playback.
When playing back audio CD, you can switch "L/R"(stereo), "L"(left) or "R"(right).

**1) During playback, press [DISPLAY] or [AUDIO ◌))]to bring up the display menu.**
**If the display menu is already shown, skip to step 2.**
• If you press **[AUDIO ◌))]**, skip to step3.

**2) Use [◄ / ►] to select ◄)) to display the selection menu.**

**3) Use [▲ / ▼] to select a desired audio soundtrack or audio channel, then press [ENTER].**

For DVD-video or VR mode DVD-RW
• Audio soundtrack will switch.
e.g.) DVD-video

```
T  1/ 5  C  1/ 5  ◔  0:01:00 / 1:23:45  ◉
Q ◄)) ▭ ▤ C ▦ NR Q ⇄         DVD  Video
✔  1.Dolby Digital  2ch English
   2.Dolby Digital  5.1ch English
```
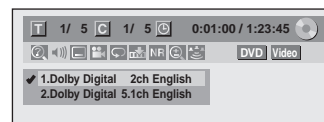
• If the title contains both main and sub audio, you can further select "L" (main), "R" (sub), "L/R" (mixed of main and sub).
For audio CD
• Audio channel will switch.
e.g.) audio CD

```
T  1/ 5  ◔  0:00:15 / 0:05:00  ◉
Q ◄)) C ▦ ⇄                  CD
✔  1. L/R
   2. L
   3. R
```
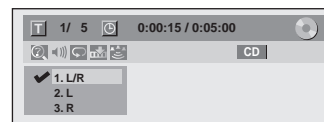
### Note
• Some discs will only allow you to change the soundtrack from the disc menu. Press **[MENU/LIST]** or **[TOP MENU]** to display the disc menu.

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## Switching Virtual Surround System

[DVD Video] [DVD -RW Video Mode] [DVD -RW VR Mode] [DVD -R Video Mode] [DVD +RW] [DVD +R]
[CD] [MP3]

You can enjoy stereophonic virtual space through your existing 2 channel stereo system.

1) **During playback, press [DISPLAY] to bring up the display menu.**
   **If the display menu is already shown, skip to step 2.**

2) **Use [◄ / ►] to select 🎵 to display the selection menu.**
   e.g.) DVD-video

   ```
   T  1/ 5  C  1/ 5  ⏱ 0:01:00 / 1:23:45
   ⊕◀))▯⊞⟲⊞NR⊕☺              DVD Video
   ```
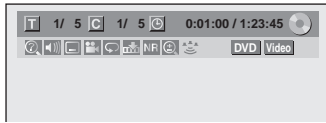
3) **Use [▲ / ▼] to select "OFF", "Type 1" or "Type 2", then press [ENTER].**
   e.g.) DVD-video

   ```
   T  1/ 5  C  1/ 5  ⏱ 0:01:00 / 1:23:45
   ⊕◀))▯⊞⟲⊞NR⊕☺              DVD Video
                        ✔ OFF
                          Type 1
                          Type 2
   ```
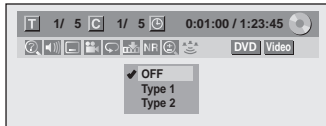
   **OFF** : no effect
   **Type 1** : natural effect
   **Type 2** : emphasized effect

> *Note*
> • Select "OFF" if sound is distorted.
> • The setting will be kept when the unit is turned off.

## Switching Camera Angles

[DVD Video]

Some DVD-video have scenes shot from two or more angles. Angle information should be on the disc case if the disc contains multi-angle scenes.

1) **During playback, press [DISPLAY].**

2) **Use [◄ / ►] to select 📷 , then press [ENTER].**

   ```
   T  1/ 5  C  1/ 5  ⏱ 0:01:00 / 1:23:45
   ⊕◀))▯⊞⟲⊞NR⊕☺              DVD Video




   ►                    ⌐📷
   ```
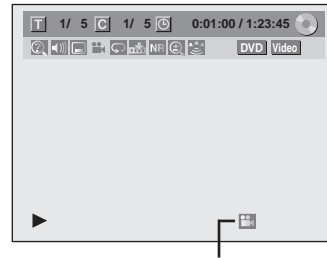
   Angle icon appears when a switching camera angle is available.

   Angle will switch each time you press **[ENTER].**

> *Note*
> • Angle icon does not appear on the TV screen if you set "Angle Icon" to "OFF" in "Playback" menu. Refer to page 86.

## Reducing Block Noise

[DVD Video] [DVD -RW Video Mode] [DVD -RW VR Mode] [DVD -R Video Mode] [DVD +RW] [DVD +R]

1) **During playback, press [DISPLAY].**

2) **Use [◄ / ►] to select NR to display the selection menu.**
   e.g.) DVD-video

   ```
   T  1/ 5  C  1/ 5  ⏱ 0:01:00 / 1:23:45
   ⊕◀))▯⊞⟲⊞NR⊕☺              DVD Video
   ```
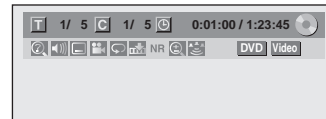
3) **Use [▲ / ▼] to, select "Noise Reduction", then press [ENTER].**

   ```
   T  1/ 5  C  1/ 5  ⏱ 0:01:00 / 1:23:45
   ⊕◀))▯⊞⟲⊞NR⊕☺              DVD Video
   Noise Reduction  OFF
   Black Level      OFF
   ```

4) **Use [▲ / ▼] to select a desired option, then press [ENTER].**

   ```
   T  1/ 5  C  1/ 5  ⏱ 0:01:00 / 1:23:45
   ⊕◀))▯⊞⟲⊞NR⊕☺              DVD Video
   ✔ OFF
     Type 1
     Type 2
   ```
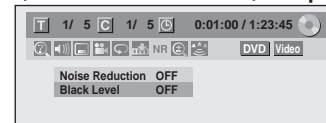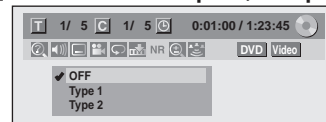
   Your setting will be activated.

   This function reduces noise in the playback picture. If noises appear on the TV screen during playing back discs recorded in long time recording mode such as EP or SLP, select "Type 1" or "Type 2".
   ("Type 2" is more effective.)
   When playing back discs with a few noises such as DVD-video, select "OFF".

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# SELECTING THE FORMAT OF AUDIO AND VIDEO

## Adjusting Black Level

**DVD** VIDEO   **DVD** -RW VIDEO MODE   **DVD** -RW VR MODE   **DVD** -R VIDEO MODE   **DVD** +RW   **DVD** +R

You can adjust the black level to control the brightness of the picture in order to get a better picture.

**1) During playback, press [DISPLAY].**

**2) Use [◄ / ►] to select NR to display the selection menu.**
e.g.) DVD-video

T 1/ 5 C 1/ 5 ⏱ 0:01:00 / 1:23:45
NR   DVD Video
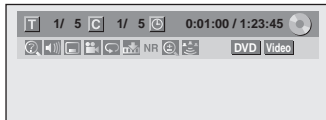
**3) Use [▲ / ▼] to select "Black Level", then press [ENTER].**

T 1/ 5 C 1/ 5 ⏱ 0:01:00 / 1:23:45
NR   DVD Video
Noise Reduction   OFF
Black Level   OFF
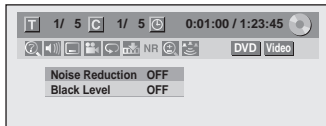
**4) Use [▲ / ▼] to select "OFF" or "ON", then press [ENTER].**
Your setting will be activated.

T 1/ 5 C 1/ 5 ⏱ 0:01:00 / 1:23:45
NR   DVD Video
OFF
✔ ON
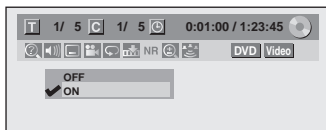
**OFF** : Shows the original picture as recorded.

**ON** : Make the darker parts of the picture more visible.

### Note
- You can adjust black level setting only during playback.
- The setting will be kept even when the unit is turned off.
- The default setting is "ON".

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# INFORMATION ON DISC EDITING

## Guide to a Title List

Title list allows you to check the titles recorded on the disc easily. You can choose a title to play back from this list and easily edit the titles as you prefer.

**Press [TOP MENU].**
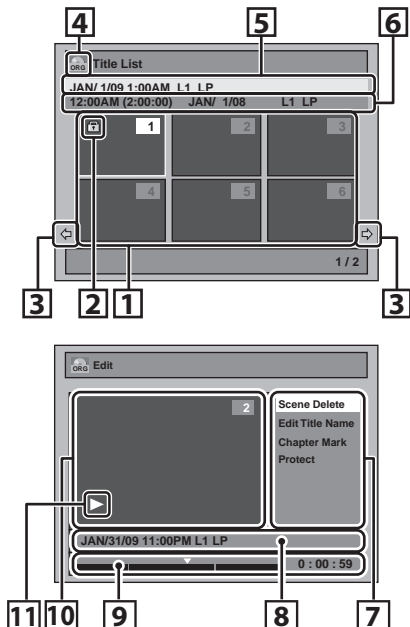




1. **Title list:** List of the titles recorded on the disc, and their information.
   - For DVD+RW/+R, empty title always appears at the last of the title list.
   - For the titles being blocked by the V-chip system, "BLOCK" will be displayed and you cannot watch the contents.
2. **The protect icon:** Appears when the title has been protected. (Original titles only)
3. **Arrow:** Indicating there is a previous / next page.
4. **Title list icon:** Indicates a type of the displayed title list.
   - ORG : VR (Original)          +VR : +VR mode
   - PL : VR (Playlist)           Video : Video mode
5. **Title name**
6. **Title information:** Displays various information on the selected title.
7. **Submenu:** Submenus for the selected menu are displayed here.
8. **Title name** (editable)**:** If you do not name the title, the recorded date, time and the recording mode are displayed here.
9. **Progress bar:** Indicating the progress of the playback. The vertical lines in the bar indicates chapter marks, and "▼" sliding on the bar indicates current point of playback displayed in the preview window.
10. **Preview window:** Preview of the selected title is displayed here.
11. **Playback status:** Indicating the current playback status of the selected title.

**Press [RETURN] to exit the title list.**

## Editing Discs

### Edit the recorded disc

You will find editing discs is easy. This unit offers convenient edit functions which are possible only with DVD-RW/-R and DVD+RW/+R.

**You can edit the following from a title list.**
- **Assigning a name to a title**
- **Dividing a title**
- **Combining titles**
- **Adding titles to a playlist**
- **Erasing all playlist**
- **Setting or releasing the title protection**
- **Adding or deleting chapter marks**
- **Deleting titles or parts of titles**

(Possible editing functions depend on the recording format and editing method.)

**Original and playlist (VR mode)**

For VR mode DVD-RW, you can edit the recordings in playlist without changing the original recordings. Playlist does not take up much disc space. After you make a recording to VR mode DVD-RW, a playlist will be created automatically.

**What "Original" or "Playlist" is for?**

Throughout this manual, you will find original and playlist which refer to the actual content and the edited version.
- **Original** content refers to what's actually recorded on the VR mode DVD-RW.
- **Playlist** content refers to the edited version of the VR mode DVD-RW; how the original content is to be played back.

**Finalizing a disc**
- This will allow a disc that is recorded on this unit to be played back on other DVD player — without finalization it will not be playable on other DVD player.
- After finalizing a DVD-RW/-R or DVD+R, you cannot edit any information that is on that disc.
- If you have recorded in DVD+RW, then editing is still permitted after finalizing.

Using these editing functions to modify copyrighted content for any purpose other than your private viewing may be prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

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# DELETING TITLES

## Notes for deleting titles

### After the disc is fully recorded:

| DVD-RW/DVD+RW | | DVD-R/DVD+R |
|---|---|---|
| • **When a title is deleted from DVD-RW in VR mode, the recordable disc space will be increased.** | • **When the last title is deleted from DVD-RW in video mode or DVD+RW, the recordable space will be increased.** | • **When a title is deleted from DVD-R and DVD+R, the recordable space will NOT be increased.** |

The Full-Recorded disc

TITLE 2  TITLE 1

Delete! TITLE 2

TITLE 1

TITLE 3  **You can record a new title.**

The Full-Recorded disc

TITLE 2  TITLE 1

Delete! TITLE 2 — Delete! TITLE 1

TITLE 3  **You can record a new title.**

TITLE 2  ✕  **You cannot record a new title.** TITLE 3

The Full-Recorded disc

TITLE 2  TITLE 1

Delete! TITLE 2

**Deleted titles cannot create the space.**

✕ TITLE 1

TITLE 3  **You cannot record a new title.**

Once all editings are made, press **[RETURN]** several times to exit the editing mode. "Writing to Disc" appears momentarily. It also appears when pressing **[▲OPEN/CLOSE]** or **[I/⏻ ON/STANDBY]** before exiting the editing mode after editing.

### Note
- If you delete the title in DVD+RW, deleted title will be displayed as "Empty".
- You cannot overwrite on the "Empty"
- For DVD+RW, if "Empty" appears right next to the other "Empty", those "Empty" combines into one.
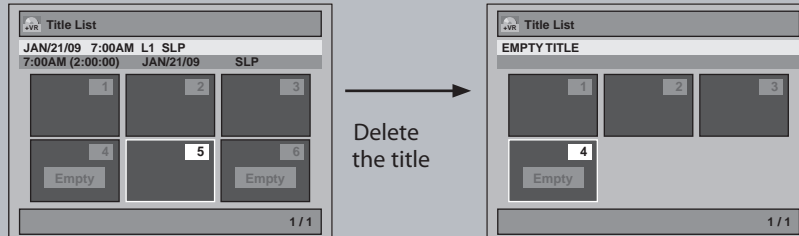
**Title List**
JAN/21/09  7:00AM  L1  SLP
7:00AM (2:00:00)      JAN/21/09      SLP

1    2    3
4    5    6
Empty        Empty

1 / 1

Delete the title →

**Title List**
EMPTY TITLE

1    2    3
4
Empty

1 / 1

# DELETING TITLES

DVD -RW VIDEO MODE  DVD -RW VR MODE  DVD -R VIDEO MODE  DVD +RW  DVD +R

You can delete titles which you do not need anymore.

Please be advised that the titles once deleted cannot be brought back to the disc.

Be sure to read "Notes for deleting titles" on page 67 before you delete the title.
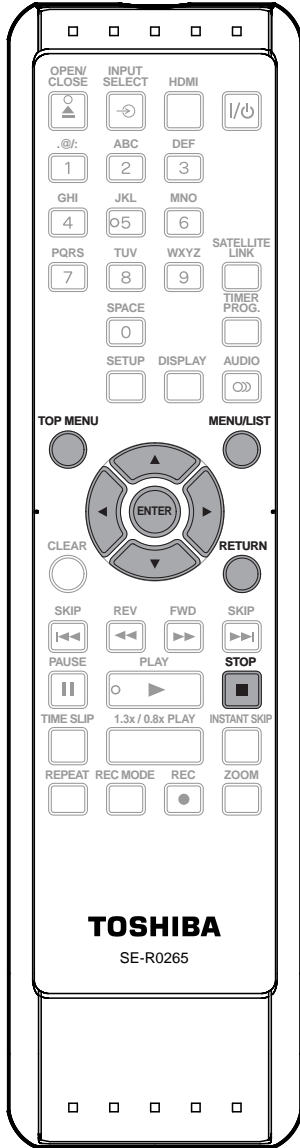
**1** **In stop mode, press [TOP MENU].**
Title list, original or playlist will appear.
• For VR mode DVD-RW, press **[MENU/LIST]** to switch between "Original" and "Playlist".

**2** **Use [▲ / ▼/◄ / ►] to select a desired title, then press [ENTER].**
e.g.) VR mode DVD-RW original

| ORG Title List | | |
|---|---|---|
| JAN/ 1/09 1:00AM  L1  LP | | |
| 1:00AM (2:00:00)  JAN/ 1/09  L1  LP | | |
| 1 | 2 | 3 |
| 4 | 5 | 6 |
| | | 1 / 2 |

**3** **Use [▲ / ▼] to select "Title Delete", then press [ENTER].**

| Play From Start |
|---|
| Edit |
| Title Delete |
| Add To Playlist |

**4** **Use [▲ / ▼] to select "Yes", then press [ENTER].**

| Delete this title? |
|---|
| Yes |
| No |

After that, "Are you sure?" will appear, select "Yes" and then press **[ENTER]**.
Title will be deleted.

**5** **Press [RETURN] or [STOP ■] to exit.**
Data will be written onto the disc momentarily.

Writing to Disc ▬▬▬▬▬▬▬ 90%

**This operation may take awhile to be completed.**

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# CREATING/DELETING PLAYLIST

## Adding Titles to a Playlist

**DVD -RW VR MODE Playlist**

For VR mode DVD-RW, you can create the playlist as you wish.

You can add up to 99 titles to a playlist (as long as the total number of the playlist does not exceed 999 chapters).
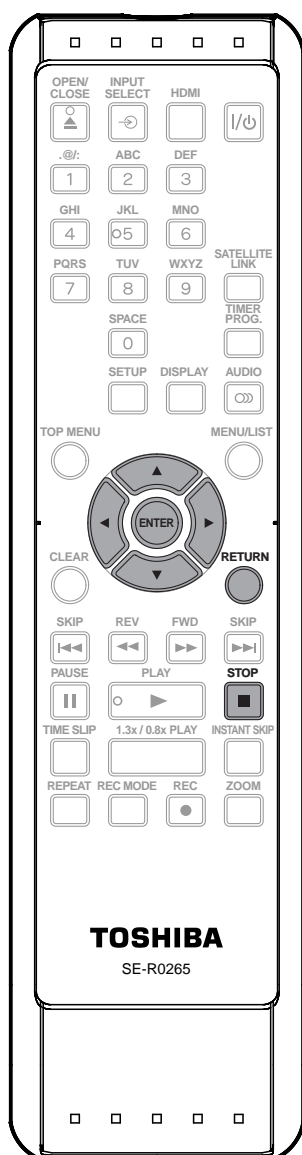
**1** Follow the step 1 in "DELETING TITLES" on page 68 to display the original.

**2** Use [▲ / ▼/◄ / ►] to select the desired title, then press [ENTER].

**3** Use [▲ / ▼] to select "Add To Playlist", then press [ENTER].

> Play From Start
> Edit
> Title Delete
> **Add To Playlist**

**4** Use [▲ / ▼] to select "Yes", then press [ENTER].

> Create a Playlist ?
>
> **Yes**
> No

The title is added to playlist.

**5** Press [RETURN] or [STOP ■] to exit.
Data will be written onto the disc momentarily.

> **This operation may take awhile to be completed.**

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### Note
• When a playlist contains 99 titles or more, or 999 chapters or more, "Add to Playlist" cannot be selected.

## Erasing All Playlist

**DVD**
-RW
VR MODE
Playlist

A playlist can be deleted if it is no longer needed.

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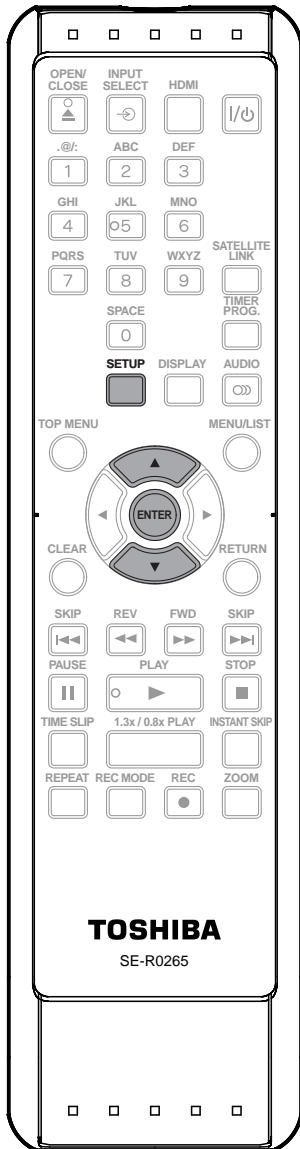
**1** **Press [SETUP].**
Main menu will appear.

**2** **Use [▲ / ▼] to select "DVD Menu", then press [ENTER].**

**3** **Use [▲ / ▼] to select "Delete All Playlists", then press [ENTER].**

> DVD Menu
>
> Format
> Finalize
> Disc Protect OFF ⇨ ON
> Delete All Playlists

**4** **Use [▲ / ▼] to select "Yes", then press [ENTER].**

> Delete entire playlist?
>
> Yes
> No
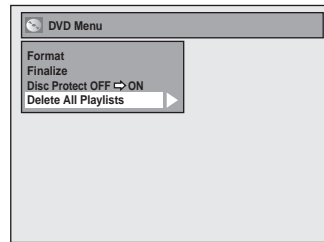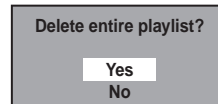
"Are you sure?" will appear.
Use **[▲ / ▼]** to select "Yes" and then press **[ENTER]**.

> DVD Menu
>
> Format
> Finalize
> Disc Protect OF
> Delete All Play
>
> Are you sure?
>
> Yes
> No
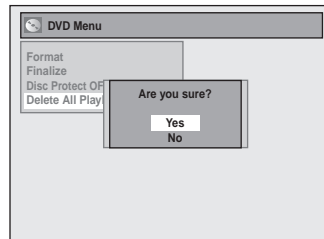
Playlist is deleted.
Data will be written onto the disc momentarily.

**This operation may take awhile to be completed.**

***Note***
• Deleting a playlist will not increase the available recording time on the disc.

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# EDITING DISCS

## Putting Names on Titles

DVD -RW Video Mode    DVD -RW VR Mode    DVD -R Video Mode    DVD +RW    DVD +R

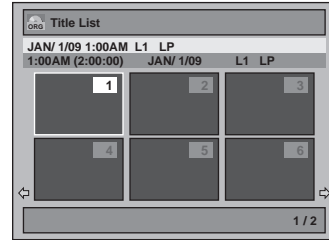You can put a name on the title and change it from this menu.
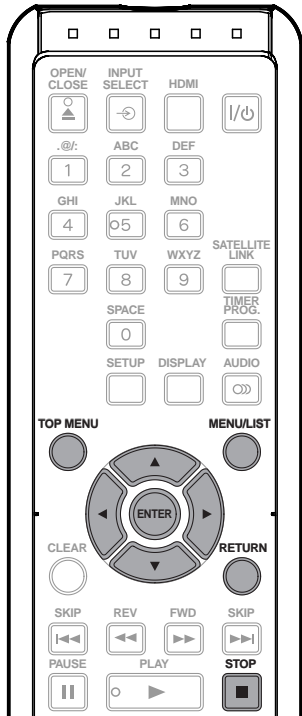
**1** **In stop mode, press [TOP MENU].**
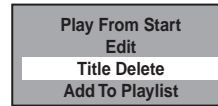Title list, original or playlist will appear.
• For VR mode DVD-RW, press **[MENU/LIST]** to switch between "Original" and "Playlist".

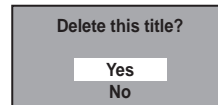**2** **Use [▲ / ▼/◄ / ►] to select a desired title, then press [ENTER].**
e.g.) VR mode DVD-RW original

ORG Title List
JAN/ 1/09 1:00AM L1 LP
1:00AM (2:00:00)    JAN/ 1/09    L1   LP
1   2   3
4   5   6
1 / 2

**3** **Use [▲ / ▼] to select "Edit", then press [ENTER].**

Play From Start
Edit
Title Delete
Add To Playlist
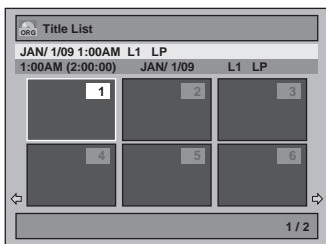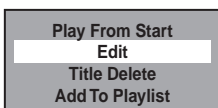
**4** **Use [▲ / ▼] to select "Edit Title Name", then press [ENTER].**

ORG Edit
1   Scene Delete
Edit Title Name
Chapter Mark
Protect
►
JAN/ 1/09 1:00AM L1   LP
1 : 25 : 47
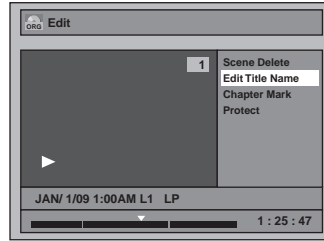
**5** **To enter a title name, follow the steps of "Guide to Edit Title Name" on page 72.**

ORG Edit - Edit Title Name
1   A B C        ← character set
a b c
1 2 3
@ ! ?
►
M
1 : 25 : 47
← area for entering title names
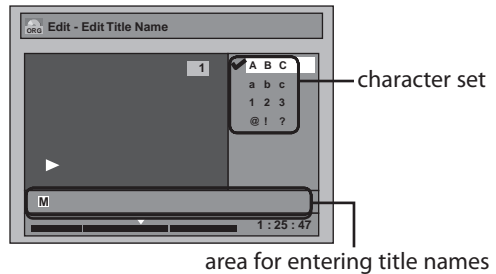
When you finish entering a title name, press **[ENTER]**.

**6** **Use [▲ / ▼] to select "Yes", then press [ENTER].**

ORG Edit - Edit Title Name
1   Yes
No
►
MY FAVORITE
1 : 25 : 47
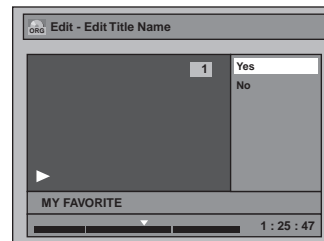
The name you entered will be activated for the title.

**7** **Press [RETURN] and then [RETURN] or [STOP ■] to exit.**
Data will be written onto the disc momentarily.

**This operation may take awhile to be completed.**

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## Putting Names on Titles (cont'd)
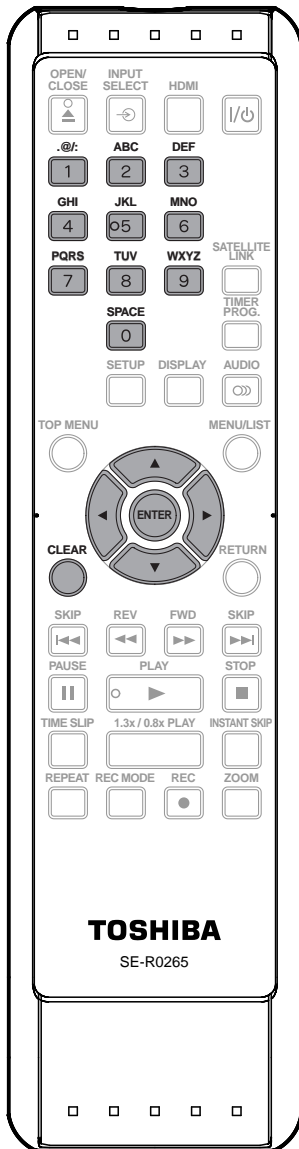
### Guide to Edit Title Name

1) Use [▲ / ▼] to select a desired character set, then press [ENTER].

2) Follow the list below, use [the Number buttons] repeatedly until the desired letter appears.

| Select ✓ / Press | ABC | abc | 123 | @ ! ? |
|---|---|---|---|---|
| 0 | \<space\> | \<space\> | 0 | \<space\> |
| 1 | (*1) | (*1) | 1 | ! " # $ % & ' ( ) * + , - . / : ; < = > ? @ [ ] ^ _ { \| } |
| 2 | ABC | abc | 2 | |
| 3 | DEF | def | 3 | |
| 4 | GHI | ghi | 4 | |
| o5 | JKL | jkl | 5 | |
| 6 | MNO | mno | 6 | |
| 7 | PQRS | pqrs | 7 | |
| 8 | TUV | tuv | 8 | |
| 9 | WXYZ | wxyz | 9 | |

*1 Press [1], character set will be changed to the " @!? " mode automatically. Press [2] to [9] to go back to the previous character set.

- To delete letters, press **[CLEAR]** repeatedly. Press and hold **[CLEAR]** to delete all letters.
- Use **[◄ / ►]** to move the cursor to the left and right.
- You can enter up to 30 letters.

### Note
- Undefined letters in a title name are shown by "*". If you delete them, adjoining letters may change to "*" or other.

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# EDITING DISCS

## Setting Chapter Marks

DVD
-RW
VR MODE
  DVD
+RW
  DVD
+R

You can put chapter marks in each title. Once a chapter is marked, you can use it for the chapter search feature.

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### *Note*

- Maximum numbers of chapter for each DVD:
  VR mode DVD : 999 chapters per entire original and playlist
  +VR mode DVD : 254 chapters per disc, 99 chapters per title
- Besides the above-mentioned, it is not likely to be able to add according to recorded time and number of chapters.
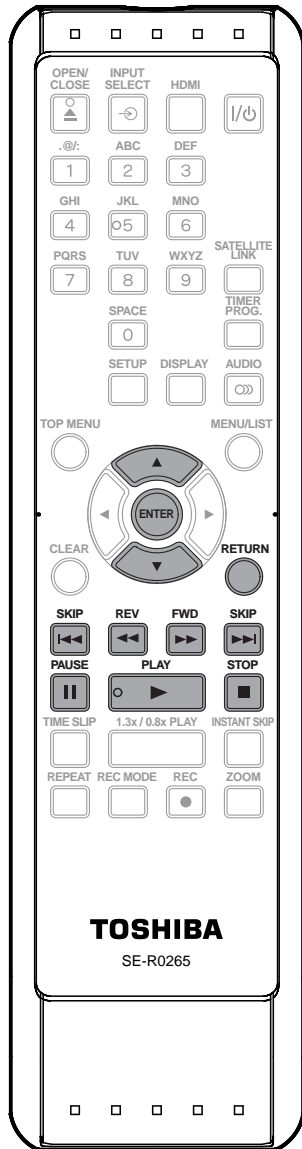
**1** **Follow steps 1 to 3 in "Putting Names on Titles" on page 71 to display "Edit" menu.**

**2** **Use [▲ / ▼] to select "Chapter Mark", then press [ENTER].**
Submenu will appear.

**3** **Use [SKIP |◀◀ / ▶▶|], [REV ◀◀], [FWD ▶▶], [PLAY ▶] and [PAUSE ▌▌] to find the point where you will create a new chapter mark. Or, use [SKIP |◀◀ / ▶▶|] to find a chapter mark that you wish to delete.**

**4** **Use [▲ / ▼] to select "Add" or "Delete", then press [ENTER].**
e.g.) VR mode DVD-RW original

| ORG  Edit - Chapter Mark | |
| --- | --- |
| | 1  Add |
| | Delete |
| Chapter 2 / 3 | |
| ▶ | |
| JAN/ 1/09 1:00AM L1  LP | |
| | 1 : 25 : 47 |
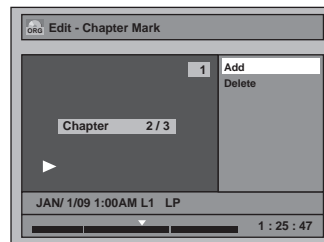
**5** **Use [▲ / ▼] to select "Yes", then press [ENTER].**
If you select "Add" at step 4, a new chapter mark will be added, and if you select "Delete" at step 4, the chapter mark will be deleted.
e.g.) Add

| ORG  Edit - Chapter Mark - Add | |
| --- | --- |
| | 1  Yes |
| | No |
| Chapter 2 / 3 | |
| ▌▌ | |
| JAN/ 1/09 1:00AM L1  LP | |
| | 1 : 25 : 47 |
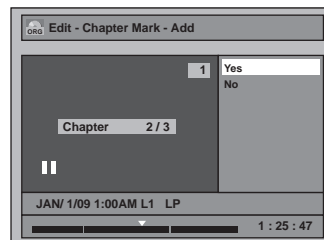
A new chapter mark will be added.

**6** **Press [RETURN].**

**7** **Press [RETURN] again and then [RETURN] or [STOP ■] to exit.**
Data will be written onto the disc momentarily.

> **This operation may take awhile to be completed.**

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## Hiding Chapters

**DVD +RW** **DVD +R**

You can hide chapters from the title list.
Hidden chapters are skipped during playback.
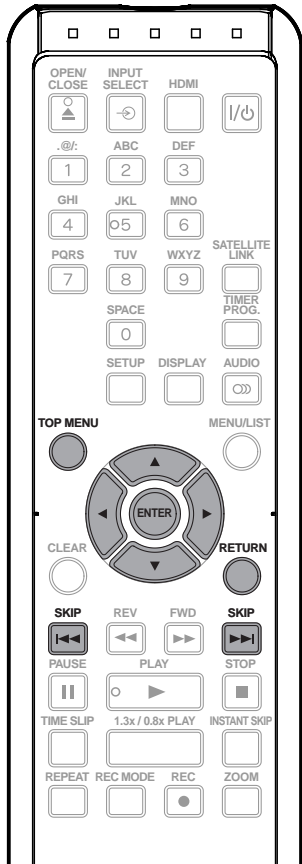
**1** **In stop mode, press [TOP MENU].**
Title list will appear.

### Note
• "Hidden" will be displayed in the preview window while previewing the hidden chapter.
• When you make all chapters in the title "Hidden", "Hidden" is displayed in a thumbnail of the title list.
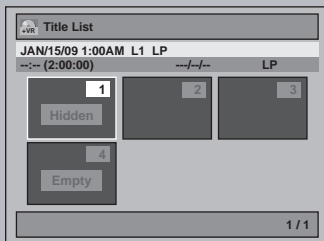
```
Title List
JAN/15/09 1:00AM L1 LP
--:-- (2:00:00)        ---/--/--          LP

  [1]          [2]          [3]
  Hidden

  [4]
  Empty

                                  1 / 1
```

**2** **Use [▲ / ▼/◄ / ►] to select a desired title, then press [ENTER].**

```
Title List
JAN/15/09 1:00AM   L1   LP
1:00AM (2:00:00)      JAN/15/09      L1  LP

  [1]          [2]          [3]


  [4]          [5]          [6]


                                  1 / 2
```

**3** **Use [▲ / ▼] to select "Edit", then press [ENTER].**

```
     Play From Start
         Edit
      Title Delete
```
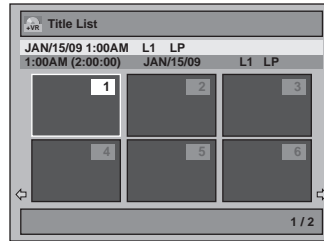
**4** **Use [▲ / ▼] to select "Hide Chapter", then press [ENTER].**
Submenu will appear.

**5** **Use [SKIP ｜◄◄] or [SKIP ►►｜] to decide the chapter to be hidden.**

**6** **Use [▲ / ▼] to select "Hidden", then press [ENTER].**

```
Edit - Hide Chapter

                        [1]  Visible
                             Hidden

  Chapter  2 / 3  Hidden

  ►

JAN/15/09 1:00AM L1  LP
                                1 : 25 : 47
```
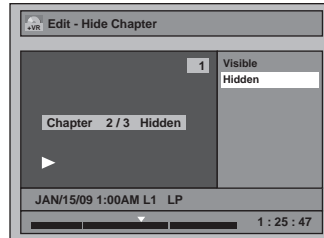
**7** **After this operation is completed, press [RETURN] thrice to exit.**
Data will be written onto the disc momentarily.

   **This operation may take awhile to be completed.**

**If you want hidden chapters to be "Visible", select the chapter to be shown. Then use [▲ / ▼] to select "Visible", then press [ENTER] at the step 6 above.**
Data will be written onto the disc momentarily.

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# EDITING DISCS

## Deleting a Part of a Title

DVD-RW VR MODE

You can delete a specific part of a title.

Even when parts of title are deleted from the playlist, the original title will remain as it is.
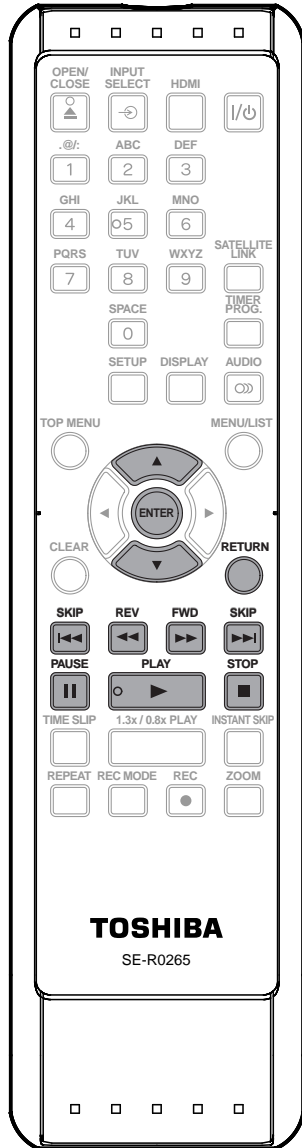
**1** Follow the steps 1 to 3 in "Putting Names on Titles" on page 71 to display "Edit" menu.

**2** Use [▲ / ▼] to select "Scene Delete", then press [ENTER].
e.g.) VR mode DVD-RW playlist.

PL   Edit

1   **Scene Delete**
    Edit Title Name
    Chapter Mark
    Title Dividing
    Title Combining

►

JAN/ 1/09 1:00AM L1   LP

1 : 25 : 47
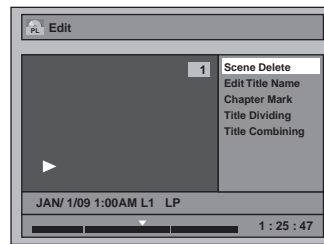
**Instructions continue on the next page.**

*Note*
• When a scene is deleted from an original, the playlist related to the original will be deleted.
• You cannot select "Scene Delete" if the number of chapter marks in the original or playlist is more than 999. (Depends on the content, there is a case that you cannot select "Scene Delete" before the number of chapter marks reaches 999.)
• The recordable disc space will not increase even after deleting a part of a title on the playlist.

## Deleting a Part of a Title (cont'd)

**3** Use **[SKIP |◀◀ / ▶▶|]**, **[REV ◀◀]**, **[FWD ▶▶]**, **[PLAY ▶]** and **[PAUSE II]** to find the start point, then press **[ENTER]**.

> **PL Edit - Scene Delete**
>
> | 1 | **Start** |
> | | End |
> | | Preview |
> | | Delete |
>
> ▶
>
> JAN/ 1/09 1:00AM L1  LP
>
> 1 : 25 : 47
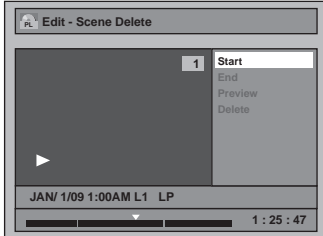
**Then use [SKIP |◀◀ / ▶▶|], [REV ◀◀], [FWD ▶▶], [PLAY ▶] and [PAUSE II] again to move to the end point, and press [ENTER].**

> **PL Edit - Scene Delete**
>
> | 1 | Start |
> | | **End** |
> | | Preview |
> | | Delete |
>
> ▶
>
> JAN/ 1/09 1:00AM L1  LP
>
> 1 : 45 : 00
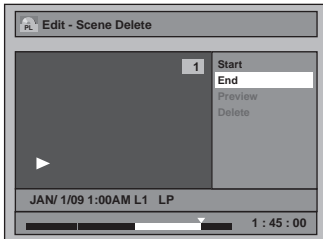
The cursor will move to "Preview".

The bar at the bottom of the screen indicates the total and the elapsed time of the title, and the area selected for deletion is indicated in red.

You can check the preview by pressing **[ENTER]**.

• Before and after 5 seconds of the deleted point will be playback for preview.

start point   end point

| | | | | | |
|---|---|---|---|---|---|
| Before editing | | | | | |
| Edited | | | | | |

**4** Use **[▲ / ▼]** to select "Delete" then press **[ENTER]**.

> **PL Edit - Scene Delete**
>
> | 1 | Start |
> | | End |
> | | Preview |
> | | **Delete** |
>
> ▶
>
> JAN/ 1/09 1:00AM L1  LP
>
> 1 : 47 : 00
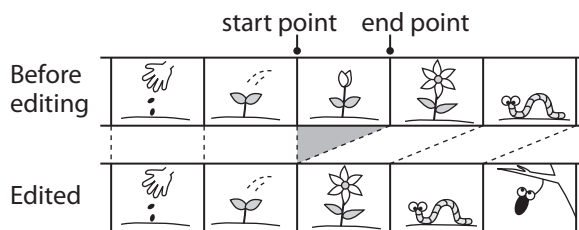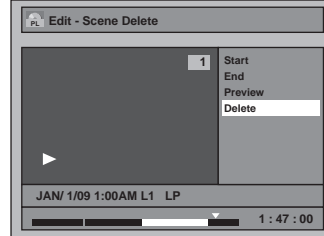
**5** Use **[▲ / ▼]** to select "Yes" then press **[ENTER]**.

"Are you sure?" will appear. Select "Yes" using **[▲ / ▼]** and then press **[ENTER]**.

> **PL Edit - Scene Delete**
>
> | 1 | Are you sure? |
> | | **Yes** |
> | | No |
>
> ▶
>
> JAN/ 1/09 1:00AM L1  LP
>
> 1 : 50 : 00
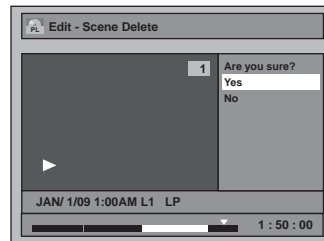
The part of the title is deleted.

**6** Press **[RETURN]** and then **[RETURN]** or **[STOP ■]** to exit.

Data will be written onto the disc momentarily.

> **This operation may take awhile to be completed.**

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# EDITING DISCS

## Dividing a Title

DVD RW VR MODE Playlist    DVD +RW

You can divide one title into two new titles.

**3** Use [▲ / ▼] to select "Edit", then press [ENTER].
e.g.) VR mode DVD-RW playlist

> Play From Start
> **Edit**
> Title Delete

**4** Use [SKIP |◄◄], [SKIP ►►|], [REV ◄◄], [FWD ►►], [PAUSE ❚❚] and [PLAY ►] to decide the point at which you will divide the title.

**5** Use [▲ / ▼] to select "Title Dividing", then press [ENTER].

**6** Use [▲ / ▼] to select "Yes", then press [ENTER].
e.g.) VR mode DVD-RW playlist

> PL Edit - Title Dividing
>
> 1   Yes
>     No
>
> ❚❚
>
> JAN/ 1/09 1:00AM L1  LP
>                                    1 : 25 : 47
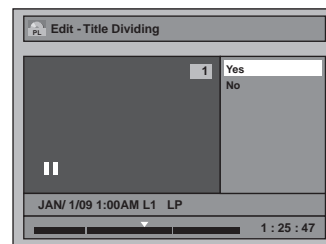
The title will be divided into two new titles. Both title names are identical.

For DVD+RW: Data will be written onto the disc momentarily.

> Writing to Disc    ▪▪▪▪▪▪▪▪▪▪▪ 90%

> **This operation may take awhile to be completed.**

For VR mode DVD-RW: Proceed to step 7.

**1** In stop mode, press [TOP MENU].
• For VR mode DVD-RW, press **[MENU/LIST]** to select "Playlist".

**2** Use [▲ / ▼/◄ / ►] to select a desired title, then press [ENTER].

**7** Press [RETURN] or [STOP ■] to exit.

Data will be written onto the disc momentarily.

> **This operation may take awhile to be completed.**

### Note
• You cannot divide a title of the disc when the number of recording titles reaches the maximum of 99 (-RW) or 49 (+RW), and the number of recording chapters reaches the maximum of 999 (-RW) or 254 (+RW).

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## Combining Titles

**DVD RW VR MODE Playlist**

You can combine two titles into a single title.
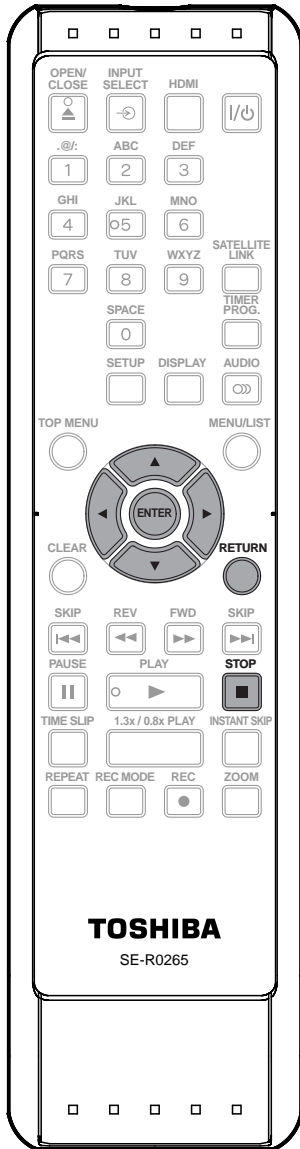
**1** Follow the steps 1 to 3 in "Dividing a Title" on page 77 to display "Edit" menu.

**2** Use [▲ / ▼] to select "Title Combining", then press [ENTER].

```
PL  Edit
                        1    Scene Delete
                             Edit Title Name
                             Chapter Mark
                             Title Dividing
                             Title Combining
    ►
    JAN/ 1/09 1:00AM L1  LP
                                      1 : 25 : 47
```

Title combining setting window will appear. Selected title grays out, and the frame of the next title becomes yellow.

```
PL  Edit - Title Combining
    JAN/31/09 11:00PM  L1  LP
    11:00PM (0:30:00)   JAN/31/09      L1  LP
              1          2            3
    1 ÷
              4          5            6

                                      1 / 6
```
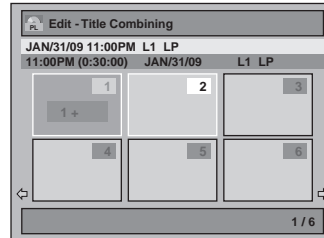
**3** Use [▲ / ▼/ ◄/ ►] to select another title to combine, then press [ENTER]. Selection menu will appear.

**4** Use [▲ / ▼] to select "Yes", then press [ENTER].

```
    Combine selected titles?
              Yes
              No
```
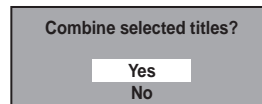
The two titles will combine into a single title.
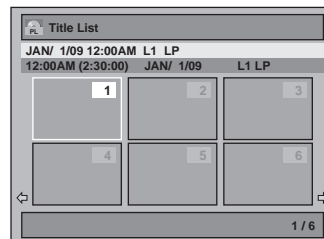
```
PL  Title List
    JAN/ 1/09 12:00AM  L1  LP
    12:00AM (2:30:00)   JAN/ 1/09      L1  LP
              1          2            3

              4          5            6

                                      1 / 6
```

**5** Press [RETURN] or [STOP ■] to exit. Data will be written onto the disc momentarily.

**This operation may take awhile to be completed.**

### Note
- You cannot select the same title twice and combine it into a single title.
- If either one of the two original titles is deleted, the combined new title is also deleted.

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# EDITING DISCS

## Setting or Releasing the Title Protection

**DVD** −RW VR MODE Original

To prevent the accidental editing, or erasing of the titles, you can protect them in "Edit" menu.

You can cancel the title protection feature after it is applied.
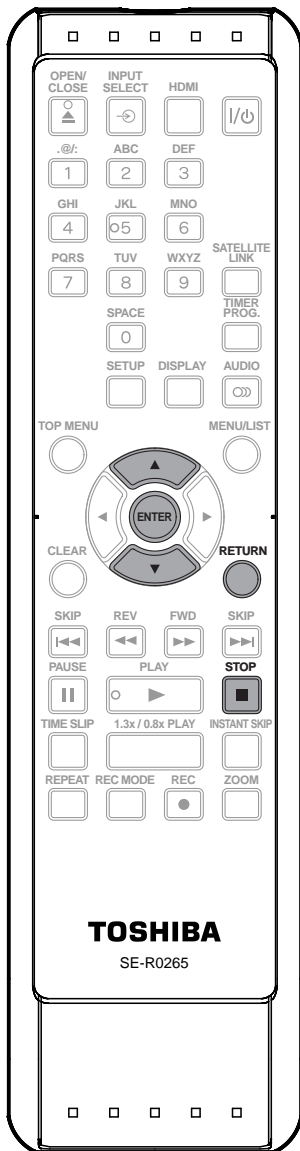
OPEN/CLOSE   INPUT SELECT   HDMI   I/ᵠ

.@/:   ABC   DEF
1   2   3

GHI   JKL   MNO
4   5   6

PQRS   TUV   WXYZ   SATELLITE LINK
7   8   9

SPACE   TIMER PROG.
0

SETUP   DISPLAY   AUDIO

TOP MENU   MENU/LIST

ENTER

CLEAR   RETURN

SKIP   REV   FWD   SKIP

PAUSE   PLAY   STOP

TIME SLIP   1.3x / 0.8x PLAY   INSTANT SKIP

REPEAT   REC MODE   REC   ZOOM

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**1** Follow the steps 1 to 3 in "Putting Names on Titles" on page 71 to display "Edit" menu.

**2** Use [▲ / ▼] to select "Protect", then press [ENTER].

ORG **Edit**

▶

1   Scene Delete
    Edit Title Name
    Chapter Mark
    **Protect**

JAN/ 1/09 1:00AM L1   LP

1 : 25 : 47
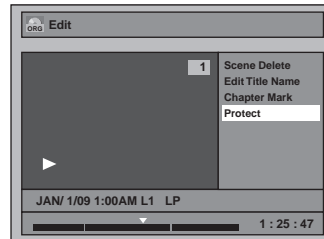
• If the title is protected, 🔒 icon will appear in the original list.

**3** Confirm the indication "OFF ➡ ON". Press [ENTER] again.

• If the title is already protected, "ON ➡ OFF" will appear. If you press **[ENTER]**, the title will be released from protection.

ORG **Edit - Protect**

▶

1   OFF ➡ ON

JAN/ 1/09 1:00AM L1   LP

1 : 25 : 47
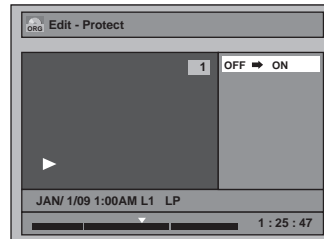
• 🔒 icon will appear on the title in the original list.

**4** Press [RETURN] and then [RETURN] or [STOP ■] to exit.

Data will be written onto the disc momentarily.

> **This operation may take awhile to be completed.**

### To protect a whole disc (VR mode DVD-RW, DVD+RW/+R only):

Select "Disc Protect OFF ➡ ON" from the DVD Menu, then select "Yes".
Refer to "SETTING A DISC TO PROTECT" on page 29.

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## Setting or Clearing All Chapter Marks at Once

**DVD-RW Video Mode**

For titles in video mode DVD-RW, you can set or edit chapter at every time interval. You can clear the chapter mark too.

You can specify the interval of chapter marks for titles last more than 5 minutes.
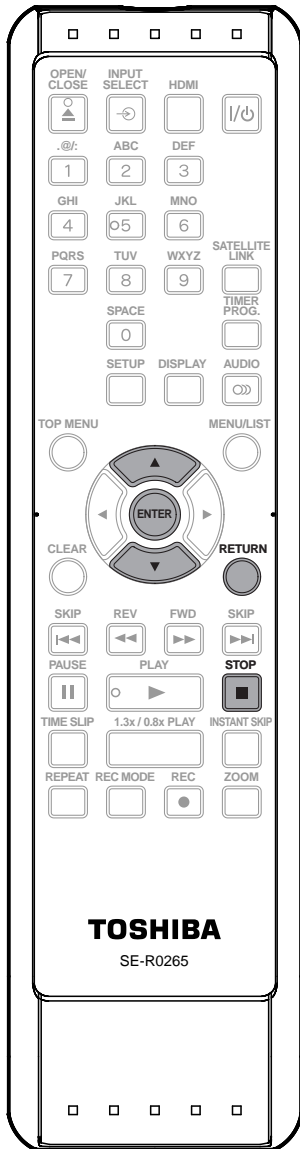
**1** Follow the steps 1 to 3 in "Putting Names on Titles" on page 71 to display "Edit" menu.

**2** Use [▲ / ▼] to select "Chapter Mark", then press [ENTER].

> Video Edit
>
> 1  Edit Title Name
>    Chapter Mark
>
> ►
>
> JAN/ 1/09 1:00AM L1  LP
> 1 : 25 : 47
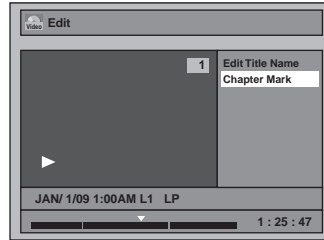
**3** Use [▲ / ▼] to select the desired interval, then press [ENTER].

> Video Edit - Chapter Mark
>
> 1  OFF
>    5 minutes
>    10 minutes
>    15 minutes
>    30 minutes
>    60 minutes
>
> ►
>
> JAN/ 1/09 1:00AM L1  LP
> 1 : 25 : 47
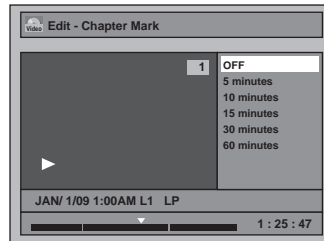
**4** Use [▲ / ▼] to select "Yes", then press [ENTER].
Chapter marks are added.
If you select "OFF" at step 3, all the chapter marks are erased.

**5** Press [RETURN] and then [RETURN] or [STOP ■] to exit.
Data will be written onto the disc momentarily.

> This operation may take awhile to be completed.

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### Note
• You cannot select a chapter mark interval that exceeds the length of a title.
• The length of chapters may slightly deviate from the one specified at the step 3.
• A chapter mark may be delayed depending on the recording content.
• Maximum number of chapter for video mode DVD is 99 chapters per title.
• The interval for auto chapter may be up to two minutes different from the time option you set.

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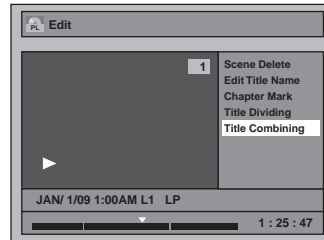# LIST OF THE DEFAULT SETTINGS

The following table is the contents which you can set and the default settings.
Refer to the following table for useful operation.

| Setup | | Items (highlight is the default) | | Contents |
|---|---|---|---|---|
| General Setting | Playback | Parental Lock → page 84 | OFF / level 8 [Adult] to 1 [Kid Safe] | Set the parental level for DVD playback. |
| | | Audio Out → page 85 | Dynamic Range Control | ON / OFF | Compressing the range of sound volume. |
| | | | PCM | 48kHz / 96kHz | Set whether the sound recorded in 96kHz will be down sampled to 48kHz. |
| | | | Dolby Digital | PCM / Stream | Set the type of sound signal which outputs from the digital audio output jack. |
| | | | DTS | ON / OFF | Set whether DTS signal is output or not. |
| | | Disc Menu Language → page 86 | English / French / Spanish / Other | Set the language for disc menu language. |
| | | Audio Language → page 86 | Original / English / French / Spanish / Other | Set the language for audio. |
| | | Subtitle Language → page 86 | OFF / English / French / Spanish / Other | Set the language for subtitles. |
| | | Angle Icon → page 86 | ON / OFF | Set whether to display the angle icon or not. |
| | | Still Mode → page 86 | Auto / Field / Frame | Set the type of still image in pausing playback. |
| | Display | OSD Language → page 87 | English / Français / Español | Set the language for OSD (on-screen display). |
| | | Screen Saver → page 87 | OFF / 1 minute / 5 minutes / 10 minutes / 15 minutes | Set the idling time before the screen saver starts. |
| | | FL Dimmer → page 87 | Auto / Bright / Dark | Set the brightness of the front panel display. |
| | | V-Chip | MPAA Rating → page 88 | X / NC-17 / R / PG-13 / PG / G / NR | Set the viewing limitation according to US movie ratings. |
| | | | TV Rating → page 88 | TV-MA / TV-14 / TV-PG / TV-G / TV-Y7 / TV-Y / None | Set the viewing limitation according to US TV program ratings. |
| | | | Canadian English Rating → page 88 | 18+ / 14+ / PG / G / C8+ / C / E | Set the viewing limitation according to Canadian English language ratings. |

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| Setup | Items (highlight is the default) | | | Contents |
|---|---|---|---|---|
| General Setting | Display | V-Chip | Canadian French Rating → page 89 | 18ans+ 16ans+ 13ans+ 8ans+ G E | Set the viewing limitation according to Canadian French language ratings. |
| | | | Change Password → page 89 | | Change the password. |
| | Video | Progressive → page 90 | | ON OFF | Set to the progressive scan mode (set to "ON") or to the interlace scan mode (set to "OFF"). |
| | | TV Aspect → page 90 | | 4:3 Letter Box 4:3 Pan & Scan 16:9 Wide | Set a picture size according to aspect ratio of your TV. |
| | | Select Video → page 26 | L1(Rear) | Video In S-Video In | Set the video input type for the external input. |
| | | | L2(Front) | Video In S-Video In | |
| | Recording | Auto Chapter → page 34 | | OFF 5 minutes 10 minutes 15 minutes 30 minutes 60 minutes | Insert chapter marks at even time interval. |
| | | Recording Audio Select (XP) → page 35 | | PCM Dolby Digital | Set the recording audio type. (Only when the rec mode is set to XP.) |
| | | Auto Finalize → page 30 | Disc Full | ON OFF | Set the unit to finalize the disc automatically. |
| | | | End of Timer Rec | ON OFF | |
| | | Aspect Ratio (Video mode) → page 35 | | Auto 4:3 16:9 | Set a aspect ratio for video mode recording. |
| | | Make Recording Compatible → page 34 | | ON OFF | Set to prohibit additional recording (OFF) or to replace the title list after recording (ON). |
| | Clock | Clock Setting → page 25 | | | Set the clock. |
| | HDMI | Format → page 91 | | RGB YCbCr | Set the color space for the HDMI output. |
| | | HDMI Audio → page 92 | | ON OFF | Set whether to output the HDMI audio signal or not. |
| | | RGB Range → page 92 | | Normal Enhanced | Set the black-white contrast level for HDMI RGB output. |
| | | HDMI CEC → page 92 | | ON OFF | Set whether to utilize the HDMI-CEC function. The HDMI-CEC function allows all components connected via HDMI cable to act in conjunction with this unit. |
| | Reset All → page 93 | | | Yes No | Set to the default setting. |

**Note**
• Your change to each setting stays on even when the power is off.
• An item which is not currently available is grayed in the settings.
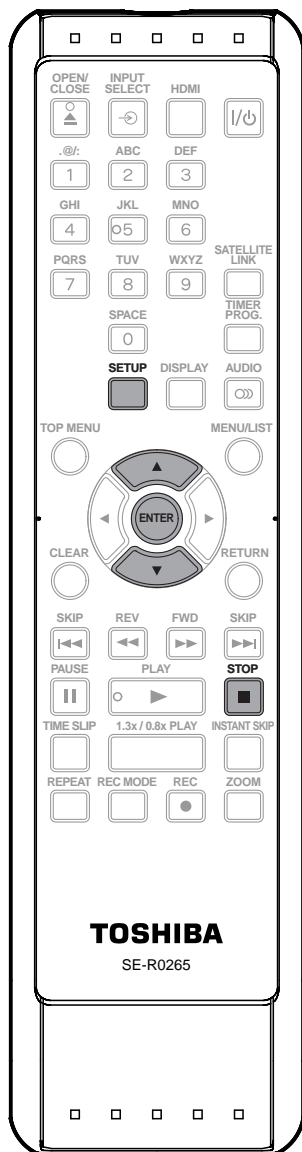
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# GENERAL SETTING

## Playback

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Press [**STOP ■**] if you are playing back a disc.

**1** Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [ENTER].

**2** Use [▲ / ▼] to select "Playback", then press [ENTER].

General Setting

Playback
Display
Video
Recording
Clock
HDMI
Reset All

**3** Use [▲ / ▼] to select a desired item, then press [ENTER].

1 Parental Lock
2 Audio Out
3 Disc Menu Language
4 Audio Language
5 Subtitle Language
6 Angle Icon
7 Still Mode
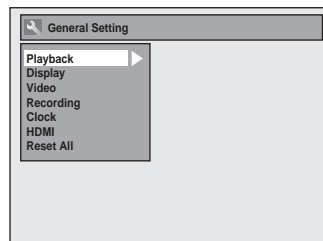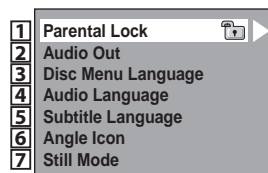
Submenu will appear.

**4** Refer 1 to 7 on pages 84 to 86 and set the selected item.

**5** When you finish with the setting, press [SETUP] to exit.

OPEN/CLOSE  INPUT SELECT  HDMI

.@/: 1  ABC 2  DEF 3

GHI 4  JKL 5  MNO 6  SATELLITE LINK

PQRS 7  TUV 8  WXYZ 9  TIMER PROG.

SPACE 0

SETUP  DISPLAY  AUDIO

TOP MENU  MENU/LIST

ENTER

CLEAR  RETURN

SKIP  REV  FWD  SKIP

PAUSE  PLAY  STOP

TIME SLIP  1.3x / 0.8x PLAY  INSTANT SKIP

REPEAT  REC MODE  REC  ZOOM

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# GENERAL SETTING

## Playback (cont'd)

**1 Parental Lock (Default: OFF)**

Some DVD-video feature a parental lock level. Playback will stop if the ratings exceed the levels you set, it will require you to enter a password before the disc will playback. This feature prevents your children from viewing inappropriate material.

**Use [▲ / ▼] to select the desired level, then press [ENTER].**

| Parental Lock |
| --- |
| ☑ OFF |
| ☐ 8 [Adult] |
| ☐ 7 [NC 17] |
| ☐ 6 [R] |
| ☐ 5 [PG R] |
| ☐ 4 [PG 13] |
| ☐ 3 [PG] |
| ☐ 2 [G] |
| ☐ 1 [Kid Safe] |

If a password has not been set yet, proceed to **A**.
If a password has been set already, proceed to **B**.

### RATING EXPLANATIONS

- OFF : Parental Control is inactive; all discs can play.
- 8 [Adult]: DVD software of any grades (adult/general/children) can be played back.
- 7 [NC 17]: No one under 17 admitted.
- 6 [R]: Restricted; under 17 requires accompanying parent or adult guardian.
- 5 [PG R]: Parental Guidance Recommended.
- 4 [PG13]: Unsuitable for children under 13.
- 3 [PG]: Parental Guidance suggested.
- 2 [G]: General Audience.
- 1 [Kid Safe]: Suitable for children.

### Note
- Parental lock function may not be available to some discs.
- With some DVD, it may be difficult to find if they are compatible with parental lock. Be sure to check if the parental lock function operates in the way that you have set.
- Record the password in case you forget it.
- If there is a DVD in the unit when you set up the parental lock, press **[OPEN/CLOSE ▲]** to activate the parental lock level.

**A** A password has not been set yet.

**Use [▲ / ▼] to select "Yes", then press [ENTER]. Use [the Number buttons] to enter a new password except for 4737, then press [ENTER].**

Change Password? Yes/No → Yes → Password Input

Your setting will be activated.

**B** A password has been set already.

- **Use [the Number buttons] to enter the current password.**

Password Input

Your setting will be activated.

- **If you want to change password, use [▲ / ▼] to select "Yes" then press [ENTER]. Use [the Number buttons] to enter a new password except for 4737, then press [ENTER].**

<change the password>

Change Password? Yes/No → Yes → Password Input

Your setting will be activated.

### Note
- Press **[CLEAR]** to erase numbers entered incorrectly.
- When you forget the password or you want to clear all settings in "Parental Lock" menu, enter 4737 using **[the Number buttons]** in password input window. Password will be cleared and parental levels will be set to "OFF".

# GENERAL SETTING

## Playback (cont'd)

### 2 Audio Out

Choose the appropriate audio setting for your external device.
**It will only affect a disc playback.**

**Use [▲ / ▼] to select a desired item, then press [ENTER].**

```
Audio Out
A  Dynamic Range Control  ▶
B  PCM
C  Dolby Digital
D  DTS
```
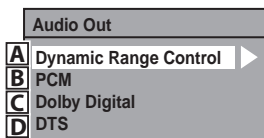
### A Dynamic Range Control (Default : ON)

Set to "ON" to compress the range between soft and loud sounds.

**Use [▲ / ▼] to select a setting, then press [ENTER].**

```
Dynamic Range Control
☑ ON
☐ OFF
```
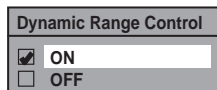
Your setting will be activated.

**Note**
- Dynamic range control function is available only on the discs which are recorded in the Dolby Digital format.

### B Settings for PCM (Default : 48kHz)

**Use [▲ / ▼] to select a setting, then press [ENTER].**

```
PCM
☑ 48kHz
☐ 96kHz
```
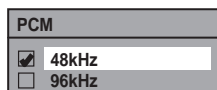
Your setting will be activated.

**48kHz** : If your amplifier/decoder is NOT compatible with 96kHz PCM, select "48kHz". 96kHz sound will be output in 48kHz.
**96kHz** : If your amplifier/decoder is compatible with 96kHz PCM, select "96kHz". 96kHz sound will be output.

**Note**
**When playing back disc with copyright protection**
- Even if you select "96kHz", the sound will be down sampled at 48kHz.

### C Settings for Dolby Digital (Default : Stream)

**Use [▲ / ▼] to select a setting, then press [ENTER].**

```
Dolby Digital
☐ PCM
☑ Stream
```
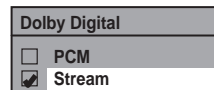
Your setting will be activated.

**PCM** : Converts the Dolby Digital into PCM (2 channel). When your amplifier/decoder is NOT compatible with Dolby Digital, set to "PCM".
**Stream** : Outputs Dolby Digital signals. When your amplifier/decoder is compatible with Dolby Digital, set to "Stream".

### D Settings for DTS (Default : ON)

**Select a setting using [▲ / ▼], then press [ENTER].**

```
DTS
☑ ON
☐ OFF
```
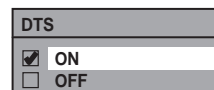
Your setting is activated.

**ON** : Outputs DTS signals. If your amplifier / decoder is compatible with DTS, set to "ON".
**OFF** : No DTS signal is output. If your amplifier / decoder is NOT compatible with DTS, set to "OFF".

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## Playback (cont'd)

### 3   Disc Menu Language (Default : English)

Set the language for disc menu.

**Use [▲ / ▼] to select a language, then press [ENTER].**

```
Disc Menu Language
☑ English
☐ French
☐ Spanish
☐ Other
```

Your setting will be activated.

### 4   Audio Language (Default : Original)

Set the audio language.

**Use [▲ / ▼] to select a language, then press [ENTER].**

```
Audio Language
☑ Original
☐ English
☐ French
☐ Spanish
☐ Other
```

Your setting will be activated.

• When "Original" is selected, the audio language will be in the disc's default language.

### 5   Subtitle Language (Default : OFF)

Set the subtitle language.

**Use [▲ / ▼] to select a language, then press [ENTER].**

```
Subtitle Language
☑ OFF
☐ English
☐ French
☐ Spanish
☐ Other
```

Your setting will be activated.

If "Other" is selected for **3** to **5**, press 4-digit code using **[the Number buttons]**.

```
Code Input
[ - ] [ - ] [ - ] [ - ]
```

• **When you finish entering the code, press [ENTER]. Refer to the language code table on page 98.**

#### Note
• Only the languages supported by the disc can be selected.
• Audio language setting may not be available to some discs.
• You can also change or switch off the subtitles on a DVD from the disc menu if it is available.
• Press **[CLEAR]** to erase numbers entered incorrectly.

### 6   Angle Icon (Default : ON)

Set to "ON" to show the angle icon during the playback.

**Use [▲ / ▼] to select a setting, then press [ENTER].**

```
Angle Icon
☑ ON
☐ OFF
```

Your setting will be activated.

### 7   Still Mode (Default : Auto)

Select "Auto" usually.

**Use [▲ / ▼] to select a setting, then press [ENTER].**

```
Still Mode
☑ Auto
☐ Field
☐ Frame
```

Your setting will be activated.

| | |
|---|---|
| **Auto** : | Optimum resolution setting ("Field" or "Frame") will be selected. |
| **Field** : | Images in the still mode will be stabilized. |
| **Frame** : | Images in the still mode will be highly defined. |

#### Note
• Frame is one completed video image made up of two fields (There are 30 frames per second of NTSC video).
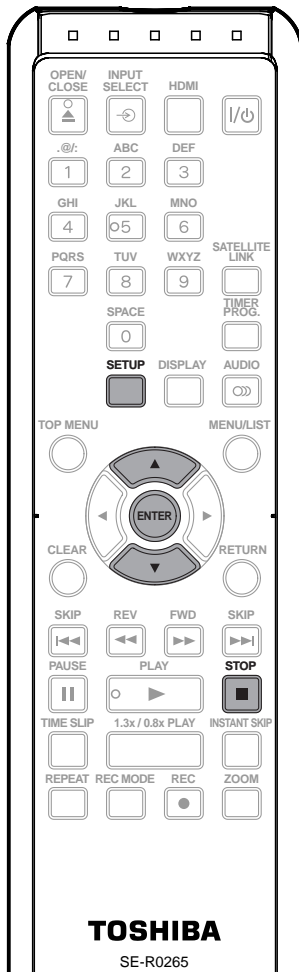
## Display

Press **[STOP ■]** if you are playing back a disc.

**1** Press **[SETUP]** and use **[▲ / ▼]** to select "General Setting", then press **[ENTER].**

**2** Use **[▲ / ▼]** to select "Display", then press **[ENTER].**

**3** Use **[▲ / ▼]** to select a desired item, then press **[ENTER].**

| | |
|---|---|
| 1 | OSD Language ▶ |
| 2 | Screen Saver |
| 3 | FL Dimmer |
| 4 | V-Chip |
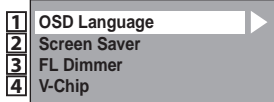
Submenu will appear.

**4** Press **[SETUP]** to exit.

**1  OSD Language (Default : English)**

Set the language for the on-screen display.

**Use [▲ / ▼] to select a language, then press [ENTER].**

| OSD Language |
|---|
| ☑ English |
| ☐ Français |
| ☐ Español |

Your setting will be activated.

**2  Screen Saver (Default : 10 minutes)**

Set the time to activate the screen saver function on the TV screen.

**Use [▲ / ▼] to select a setting, then press [ENTER].**

| Screen Saver |
|---|
| ☐ OFF |
| ☐ 1 minute |
| ☐ 5 minutes |
| ☑ 10 minutes |
| ☐ 15 minutes |
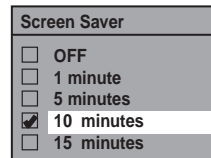
Your setting will be activated.

**3  FL Dimmer (Default: Bright)**

Set the front panel display brightness.

**Use [▲ / ▼] to select a setting, then press [ENTER].**

| FL Dimmer |
|---|
| ☐ Auto |
| ☑ Bright |
| ☐ Dark |
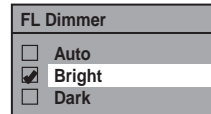
You can choose one from "Auto", "Bright" or "Dark".
If "Auto" is selected, the display gets dark when the power is off.

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## Display (cont'd)

### 4 | V-Chip

With the V-chip system in this unit, you can set the viewing limitation for the analog TV programs received from the external tuner or recorded on DVDs to prevent your children from watching inappropriate programs. If the unit detects a blocked program, a restriction message appears and you are not allowed to view the program.

**1) Use [the Number buttons] to enter the access password.**

If you have not set the password, first, use **[the Number buttons]** to set the access password, then press **[ENTER]**. The number you entered will be stored as the access password.

**Password Input**

| — | — | — | — |

**2) Use [▲ / ▼] to select a desired item, then press [ENTER].**
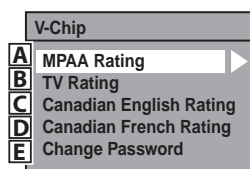
**V-Chip**
| A | MPAA Rating |
| B | TV Rating |
| C | Canadian English Rating |
| D | Canadian French Rating |
| E | Change Password |

| A | MPAA Rating |
| B | TV Rating |
| C | Canadian English Rating |
| D | Canadian French Rating |

You can set the viewing limitation according to
MPAA rating (US movie ratings),
TV Rating (US TV program ratings),
Canadian English Rating (Canadian English language ratings),
Canadian French Rating (Canadian French language ratings).

**1) Use [▲ / ▼] to select the desired rating, then press [ENTER] repeatedly to switch between view and block. When it is blocked a key icon will appear.**

e.g.) MPAA rating

**MPAA Rating**
X
NC-17
R
PG-13
PG
G
NR
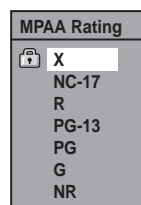
**[MPAA Rating]**

| Rating | Category | |
|---|---|---|
| X | Mature audience only | **higher** |
| NC-17 | No one under 17 admitted | ↑ |
| R | Restricted; under 17 requires accompanying parent or adult guardian | |
| PG-13 | Unsuitable for children under 13 | ↓ |
| PG | Parental guidance suggested | |
| G | General audience | **lower** |
| NR | No rating | |

**[TV Rating]**

| Rating | Category | |
|---|---|---|
| TV-MA | Mature audience only | **higher** |
| TV-14 | Unsuitable for children under 14 | ↑ |
| TV-PG | Parental guidance suggested | |
| TV-G | General audience | |
| TV-Y7 | Appropriate for all children 7 and older | ↓ |
| TV-Y | Appropriate for all children | **lower** |
| None | No rating | |

**[Canadian English Rating]**

| Rating | Category | |
|---|---|---|
| 18+ | Adult audience only | **higher** |
| 14+ | Unsuitable for ages under 14 | ↑ |
| PG | Parental guidance suggested | |
| G | General audience | |
| C8+ | For children over 8 | ↓ |
| C | For all children | **lower** |
| E | Exempt program | |

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# GENERAL SETTING

## Display (cont'd)

**[Canadian French Rating]**

| Rating | Category | |
|--------|----------|---|
| **18ans+** | Adult audience only | **higher** |
| **16ans+** | Unsuitable for ages under 16 | ↑ |
| **13ans+** | Unsuitable for ages under 13 | |
| **8ans+** | Unsuitable for ages under 8 | ↓ |
| **G** | General audience | **lower** |
| **E** | Exempt program | |

**As for TV Rating's TV-MA, TV-14, TV-PG, or TV-Y7, you can further set the sub ratings to block specific elements of programming. Press [▲ / ▼/ ◄ /►] to select the desired rating or sub rating, then press [ENTER] repeatedly to switch between view and block. Sub rating status will appear on the side of the main rating.**

```
TV Rating

           FV   V   S   L   D
  TV-MA   [🔒]  □  □  □  □
  TV-14    □   □  □  □  □
  TV-PG    □   □  □  □  □
  TV-G
  TV-Y7   □
  TV-Y
  None
```
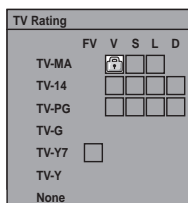
| Sub Rating | Category | Rating |
|------------|----------|--------|
| **FV** | Fantasy Violence | TV-Y7 |
| **V** | Violence | TV-PG |
| **S** | Sexual Situation | TV-14 |
| **L** | Coarse Language | TV-MA |
| **D** | Suggestive Dialogue | TV-PG, TV-14 |

> ### Note
> • Changing the main rating to block or view automatically changes all its sub ratings to the same (block or view).

---

**E** | Change Password

Change the current password.

**Use [the Number Buttons] to enter new access password.**

> ### Note
> • Press **[CLEAR]** to erase numbers entered incorrectly.
> • When you forgot the access password, enter 4737 using **[the Number buttons]** in password input window. Password will be cleared.

## Video



Press **[STOP ■]** if you are playing back a disc.

**1** Press **[SETUP]** and use **[▲ / ▼]** to select "General Setting", then press **[ENTER]**.

**2** Use **[▲ / ▼]** to select "Video", then press **[ENTER]**.

**3** Use **[▲ / ▼]** to select a desired item, then press **[ENTER]**.

| 1 | Progressive | ▶ |
| 2 | TV Aspect | |
| 3 | Select Video | |
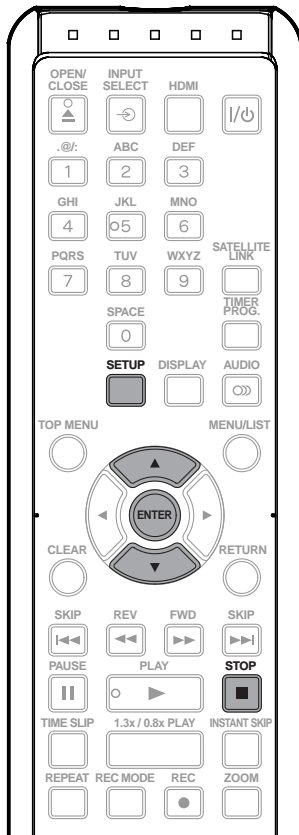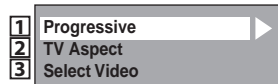
Submenu will appear.

**4** Refer 1 to 2 on this page and set the selected item.
- For 3 , refer to "SETTINGS FOR THE VIDEO INPUT" on page 26.

**5** When you finish with the setting, press **[SETUP]** to exit.

**1** **Progressive (Default : OFF)**

This unit is compatible with the progressive scan system. The feature provides you with the higher definition images than the traditional output system does. To utilize this feature, you must set progressive scan mode to "ON".

**1) Use [▲ / ▼] to select "ON", then press [ENTER].**

| Progressive | |
| --- | --- |
| ☐ | ON |
| ☑ | OFF |

**2) Use [◀ / ▶] to select "Yes", then press [ENTER].**

Activating progressive scan:
Check your TV has progressive scan
and connect with component video cable.

NOTE :
    If there is no picture or picture is
    distorted after selecting "Yes",
    Wait about 15 seconds for auto recovery.

| Activate? | Yes | No |
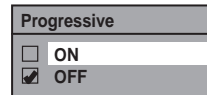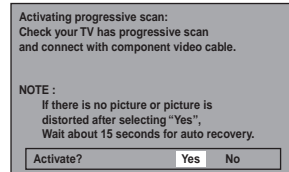
**3) Use [▲ / ▼] to select "Yes" within 15 seconds, then press [ENTER].**
Your setting will be activated.

### Note
- If your TV is compatible with progressive scan (480p), you are recommended to use the HDMI or component video cable (commercially available) to connect this unit to the TV. (Refer to pages 19-20.) If not, use the RCA video cable and set the progressive scan to "OFF".
- If the Progressive Scan image is distorted, you can cancel Progressive Scan by pressing and holding **[SETUP]** for more than 3 seconds during DVD playback. The "Progressive" setting will be "OFF".
- When selecting "No" or not pressing any buttons on the unit or remote control within 15 seconds at step 3, progressive scan remains to be "OFF" (interlace scan).

**2** **TV Aspect (Default: 16:9 Wide)**

You can select the TV aspect ratio to match the formats of what you are playing back with the unit and your TV screen (4:3 standard or 16:9 widescreen TV).

**Use [▲ / ▼] to select a desired option, then press [ENTER].**

| TV Aspect | |
| --- | --- |
| ☐ | 4:3 Letter Box |
| ☐ | 4:3 Pan & Scan |
| ☑ | 16:9 Wide |
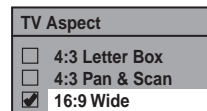
**If you have a standard TV:**
Select "4:3 Letter Box", so that black bars appear on the top and bottom of the TV screen when playing back a wide-screen picture. Select "4:3 Pan & Scan" for a full height picture with both sides trimmed when playing back wide-screen picture.

**If you have a widescreen TV:**
Select "16:9 Wide".

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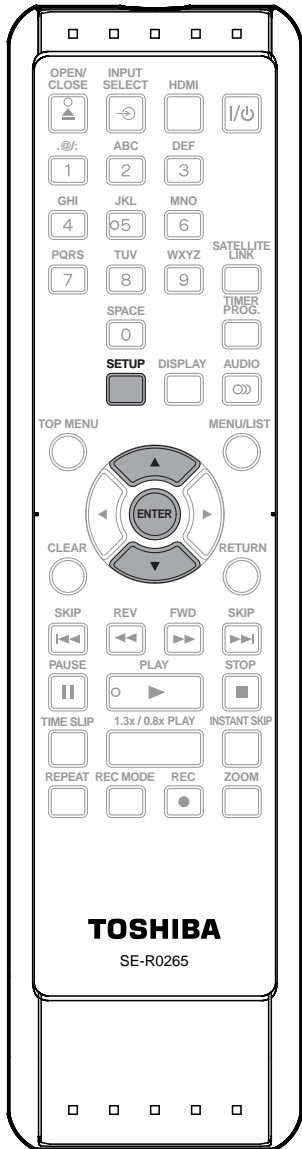
## HDMI

**1** Press [SETUP] in stop mode and use [▲ / ▼] to select "General Setting", then press [ENTER].

**2** Use [▲ / ▼] to select "HDMI", then press [ENTER].

General Setting

Playback
Display
Video
Recording
Clock
HDMI
Reset All

• You cannot select HDMI when an HDMI cable is not connected and the item is shown in grey color.

**3** Use [▲ / ▼] to select a desired item, then press [ENTER].

1 Format
2 HDMI Audio
3 RGB Range
4 HDMI CEC
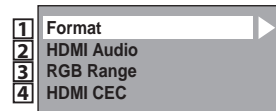
• You cannot select 1 through 3 when an HDMI cable is not connected (the items will be shown in grey).

**4** When you finish with the setting, press [SETUP] to exit.

### 1 Format (Default : RGB)

You can select the color space for HDMI output.
Set the appropriate color space for your display device.

**Use [▲ / ▼] to select a setting, then press [ENTER].**

• When the connected device is not compatible with the Y/Cb/Cr, HDMI signal is output as RGB regardless of the setting.
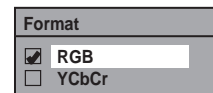
Format

☑ RGB
☐ YCbCr

Your setting will be activated.

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## HDMI (cont'd)

### 2 | HDMI Audio (Default : ON)

If you do not want to output the audio through HDMI (when you digitally output the audio through the COAXIAL DIGITAL AUDIO OUT jack to your audio system, etc.), you can set the HDMI audio output off.

**Use [▲ / ▼] to select a setting, then press [ENTER].**

• Set to "OFF" when the HDMI sound is not output.

| HDMI Audio |
|---|
| ☑ ON |
| ☐ OFF |
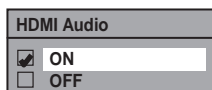
Your setting will be activated.

### 3 | RGB Range (Default : Normal)

You can adjust the RGB range to make the dark areas of the HDMI images brighter.

**Use [▲ / ▼] to select a setting, then press [ENTER].**

• Select "Enhanced" if the black-white contrast is not clear.
• This setting is effective only for HDMI RGB output.

| RGB Range |
|---|
| ☑ Normal |
| ☐ Enhanced |
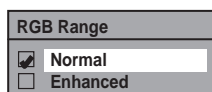
Your setting will be activated.

### 4 | HDMI CEC (Default : OFF)

You can control all HDMI-CEC compatible components connected via HDMI cable by simple button operations of remote control of this unit.
In order to enable the function you need to set "HDMI CEC" to "ON".

**Use [▲ / ▼] to select a setting, then press [ENTER].**
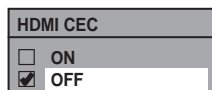
| HDMI CEC |
|---|
| ☐ ON |
| ☑ OFF |

Your setting will be activated.

**Functions available for the HDMI-CEC**

**• One touch play**

When the operations with following buttons of this unit's remote control are performed, the TV will automatically turned on and switch to appropriate input channel.

**Buttons for one touch play:**
**[TIMER PROG.], [SETUP], [INPUT SELECT ⊕],**
**[PLAY ►], [TOP MENU], [MENU/LIST]**

**• System information**

**Get & Set Menu Language:** This unit recognizes the OSD language set for the TV and automatically set the same language as the player menu language (OSD menu language) for this unit.

**Power off:** When you turn the TV off, this unit and all equipment connected via HDMI will automatically turns off except during recording on the unit.

**Receiving operational signal from TV's remote control:** You can operate this unit with TV's remote control. Check your TV owner's manual for details.

---

*Note*
• This function may not work properly depending on the TV you are connecting.
• The available operation may differ depends on the TV's remote control you use.
• Other components must be compatible with HDMI-CEC in order to use this function.

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## Reset All

Reset the setting to default.
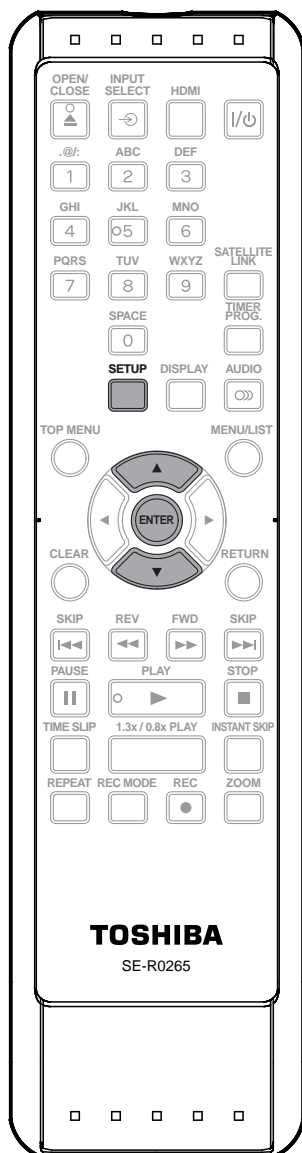
**1** **Press [SETUP] in stop mode and use [▲ / ▼] to select "General Setting", then press [ENTER].**

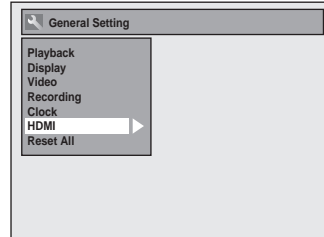**2** **Use [▲ / ▼] to select "Reset All", then press [ENTER].**

General Setting

Playback
Display
Video
Recording
Clock
HDMI
Reset All
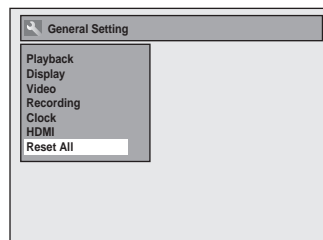
**3** **Select "Yes" using [▲ / ▼] , then press [ENTER].**

Reset to factory default?

Yes
No
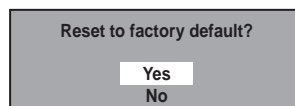
"Are you sure?" will appear. Select "Yes" using **[▲ / ▼]** and then press **[ENTER]**.
Your setting will be initialized.

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### *Note*
• The settings listed below will remain unchanged even after resetting to the factory default.
  - Clock setting
  - OSD language setting
  - Parental lock setting
  - V-chip setting
  - Timer programs

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# TROUBLESHOOTING

Before requesting service for this unit, check the table below for a possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation.

| Symptom | Remedy |
|---|---|
| **Power** | |
| The power does not turn on. | • Check that the AC power cord is connected securely.<br>• Check the breaker (in case of power failure). |
| **Picture** | |
| There is no picture. | • Re-connect the connecting cords securely.<br>• Check if the connecting cords are damaged.<br>• If the main menu appears on the TV screen, press **[RETURN]** to exit.<br>• Check the connection to your TV (pages 18-21).<br>• Check if the progressive scan mode is set correctly according to your TV (page 90).<br>• Switch the input selector on your TV (such as to "L1") so that the signal from the unit appears on the TV screen. |
| Picture noise appears. | • Clean the disc with a cleaning cloth. |
| TV program pictures are distorted. | • Check if all the connections are made correctly (page 18). |
| Playback picture is distorted. | • Keep the device which may cause electrical disturbances, such as a cellular phone away. |
| Playback picture or TV program from the device connected through the unit is distorted. | • If the playback picture output from a DVD player, VCR or tuner goes through the unit before reaching your TV, the copy-protection signal applied to some programs could affect picture quality. Disconnect the playback device in question and connect it directly to your TV. |
| Cannot record a TV program. | • This unit does not have a tuner to receive TV broadcasting.<br>• You must connect this unit to an external tuner to record TV programs (page 18). |
| **Sound** | |
| There is no sound. | • Clean the disc with a cleaning cloth.<br>• Re-connect all connections securely.<br>• Check if the connecting cord is damaged.<br>• Check the connections to the amplifier input.<br>• The input device setting on the amplifier is incorrect.<br>• The unit is in pause mode or in slow-motion playback mode.<br>• The unit is in fast forward or fast reverse mode.<br>• If the audio signal does not come through the DIGITAL AUDIO OUTPUT (COAXIAL) jack, check the setting in "Audio Out" (page 85). |
| No DTS sound on digital output. | • Change the setting menu for DTS to ON. |
| No DTS sound from analog output | • This unit has no analog sound output when playing back the selected DTS sound mode. |
| Sound is noisy. | • Clean the disc with a cleaning cloth. |
| **Remote control** | |
| The remote control does not function. | • Batteries are weak.<br>• There are obstacles between the remote control and the unit.<br>• The remote control is far from the unit.<br>• There are no batteries in the remote control.<br>• Check if the unit is turned on.<br>• The remote control is not pointed at the infrared sensor window on the unit. |

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| Symptom | Remedy |
|---|---|
| **Playback** | |
| The disc does not play back. | • No disc is inserted.<br>• A blank disc is inserted.<br>• The disc is upside down. Insert the disc with the labeled side facing up.<br>• The disc is not correctly inserted.<br>• The unit cannot play back certain discs (such as a CD-ROM) (page 10).<br>• The region code on the DVD-video does not match the unit (page 10).<br>• Moisture has condensed inside the unit. Remove the disc and leave the unit turned on for about 2 hours until the moisture evaporates (page 4).<br>• If the disc was recorded on another recorder, the unit cannot play back the disc if it was not finalized. |
| Playback image freezes for a second. | • During the playback of 2 layered disc, picture may freeze for a moment when the 1st layer switches to the 2nd layer. This is not a malfunction. |
| The disc does not start playback from the beginning. | • Resume playback was activated (page 54). Press **[STOP ■]** twice.<br>• You have inserted a disc whose title menu or DVD menu automatically appears on the TV screen when it is first inserted. |
| The unit starts playing back the disc automatically. | • The DVD-video features an auto playback function. |
| Some functions such as stop, search, or slow-motion playback cannot be performed. | • Depending on the disc, you may not be able to do some of the operations. Refer to the instruction manual supplied with the disc. |
| The language for the sound track cannot be changed. | • The titles does not have the multilingual audio tracks.<br>• The DVD-video prohibits the changing of the language for the sound track. |
| The subtitle language cannot be changed or turned off. | • Multilingual subtitle are not recorded on the DVD-video. |
| The angles cannot be changed. | • Multi-angles are not recorded on the DVD-video being played back.<br>• The angle-change operation is whenever possible as long as the disc contains a multi-angle portion. Actual change will be performed when the portion has come up.<br>• The DVD-video prohibits changing angles.<br>• Try changing the angle using the DVD-video's menu. |
| **Recording / Timer recording / Editing** | |
| External input position (L1/L2) cannot be changed while recording. | • This unit is designed so. This is not a malfunction. |
| Nothing was recorded even though you set the timer setting correctly. | • There was a power failure during recording.<br>• The unit's internal clock stopped due to a power failure that lasted for more than 30 seconds. Reset the clock (page 25).<br>• The program contains copy protection signals that restricts copying.<br>• The timer setting overlapped with another setting that has priority. |
| Recording does not stop immediately after you press **[STOP ■]**. | • It will take a few seconds for the unit to input disc data before recording stops. |
| Timer recording is not complete or did not start from the beginning. | • The timer setting overlapped with another setting that has priority (page 41).<br>• Disc space was not enough.<br>• "Make Recording Compatible" is not set to "ON", when recording onto DVD+RW/+R that was recorded on other unit. |

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| Symptom | Remedy |
|---|---|
| **DV** | |
| DV signal cannot be input. | • Before connection, turn on the power supplies for both this unit and the DVC, and make sure that these units are in stop mode.<br>• Only a "DVC-SD" signal can be input from the DVC to this unit. Other types of signals are not supported.<br>• Do not connect any device other than the DVC. Even if a recorder or PC with another DV terminal is connected, the DV function will not operate.<br>• If the DVC is not recognized after connection, turn off the power supply for the unit and re-connect the DVC. |
| The DVC cannot be operated with this unit. | • Signal input or DVC operation from this unit may be disabled depending on the type of DVC.<br>• If a DVC signal cannot be input, use an external input (L1 (Rear)/L2 (Front)) for analog connection via audio/video cables.<br>• DVC control may be disabled depending on the type of DVC, even in a mode other than camera mode. In this case, switch to DVD control and execute the normal recording procedure while operating the DVC. |
| Certain functions of the unit cannot operate. | • Some functions may not operate depending on the type of DVC. For example, if the DVC does not support slow playback mode, the slow playback function is disabled.<br>• With L3 (DV-IN), the disc display menu does not appear unless disc playback is executed. |
| DV audio signal cannot be switched. | • For recording with the DVC, the recording audio signal can be set to 12 bits or 16 bits. However, when 16-bit recording mode is selected, audio signal cannot be switched. To record an audio signal, set it to 12 bits. |
| **HDMI** | |
| No image from HDMI connection. | • Check the HDMI connection. (Check the status of the HDMI related indications.)<br>• Check whether the connected monitor device or other device supports HDCP. (This unit will not output a video signal unless the other device supports HDCP.)<br>• Check the setting of HDMI.<br>• Check whether the output format of this unit (HDMI FORMAT) matches the supported input format of other connected device.<br>• If the unit is connected to the unauthorized display device with an HDMI cable, the audio/video signal may not be output when playing back a commercial DVD-video. |
| There is no sound or the sound is distorted. | • The HDMI sound is not output when "HDMI Audio" is set to "OFF".<br>• Check the RCA audio cable connection. If you are using HDMI-DVI conversion cable, you must connect the RCA audio cable, too.<br>• Check whether the output format of this unit (HDMI FORMAT) matches the supported input format of other connected device. |
| **Others** | |
| The unit does not operate properly. | • When static electricity, etc., causes the unit to operate abnormally, unplug the unit and then plug it in again. |
| The disc tray does not open when you press [OPEN/CLOSE ▲]. | • It may take a few seconds for the disc tray to open after you have recorded or edited a disc. This is because the unit is adding disc data to the disc. |
| "Repairing" appears on the TV screen.<br><br>Repairing ▢▢▢▢▢▢▢▢ | • If there is a power failure or unplugging during recording, finalizing, formatting or editing (even after "Repairing" disappears), a repairing process will begin automatically just after turning the unit on again.<br>It may take several minutes up to about several hours. |
| In case you intend to cancel the repairing process.<br><br>Do you want to cancel a repairing process ? When selecting "Yes", the disc may not be usable.<br>Yes<br>**No**<br>Repairing ▢▢▢▢▢▢▢▢ | • If you intend to cancel the repairing process, press [▲OPEN/CLOSE] on the front panel, then select "Yes" and press [ENTER]. After that, press [OPEN/CLOSE ▲] to take out the disc. **The disc canceled during the repairing process MAY NOT work.** |

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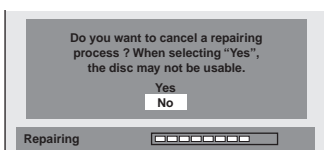
| Error message | Cause | Solution |
|---|---|---|
| Disc Error<br>— Please eject the disc. —<br>Playback feature may not be available on this disc. | • Unplayable disc is inserted in the unit.<br>• The disc is upside down. | • Insert the standardized disc which have the marks on pages 9-10.<br>• Insert the disc with the labeled side facing up. |
| Region Error<br>— Please eject the disc. —<br>Playback is not authorized in your region. | • Playback is not authorized in the region of the DVD-video which you inserted in the unit. | • Insert the DVD-video with region codes 1 or ALL. |
| Parental Lock On<br>The current selected parental level prohibits playback. | • The current selected parental level prohibits playback. | • Check "Parental Lock" setting in "Playback" menu (page 84). |
| Recording Error<br>This program is not allowed to be recorded. | • You are trying to record the copy prohibited program. | • You cannot record copy prohibited programs. |
| Recording Error<br>This program is not recordable in Video mode. | • You are trying to record the copy-once program onto the DVD-RW disc in video mode. | • Set "Format Mode" to "VR mode" (page 27). |
| Recording Error<br>This program is not recordable in +VR mode. | • You are trying to record the copy-once program. | • Insert the DVD-RW disc in VR mode (ver.1.1 or 1.2 compatible with CPRM). |
| Recording Error<br>Cannot record on this disc. | • You are trying to record onto the disc which is unrecordable, or the disc status is unable to record.<br>• The disc is dirty.<br>• The disc is damaged. | • Insert the recordable disc, and ensure the disc status satisfies the recording requirements (page 9).<br>• Clean the disc with a cleaning cloth.<br>• Replace the disc. |
| Recording Error<br>This program is not allowed to be recorded on this disc. | • You are trying to record the copy-once program onto the DVD-RW disc which is not compatible with CPRM. | • Insert the DVD-RW disc in VR mode (ver.1.1 or 1.2 compatible with CPRM). |
| Recording Error<br>This disc is protected and not recordable. | • You are trying to record on to the protected disc which is set in "DVD Menu" menu. | • Release the disc protect setting in "DVD Menu" menu (page 29). |
| Recording Error<br>Disc is full.<br>(No area for new recording) | • You are trying to record onto the disc which has no space for recording. | • Insert the recordable disc with enough recording space. |
| Recording Error<br>You cannot record more than 99 titles on one disc.<br>(The maximum is 99) | • You are trying to record onto the DVD-RW/-R on which the number of recording titles comes up to the maximum (99). | • Delete unnecessary titles (pages 67-68). |
| Recording Error<br>You cannot record more than 999 chapters on one disc.<br>(The maximum is 999) | • You are trying to record onto the VR mode DVD-RW on which the number of recording chapters comes up to the maximum (999). | • Delete unnecessary chapter marks (page 73). |
| Recording Error<br>You cannot record more than 49 titles on one disc.<br>(The maximum is 49) | • You are trying to record onto the DVD+RW/+R on which the number of recording titles comes up to the maximum (49). | • Delete unnecessary titles (pages 67-68). |
| Recording Error<br>You cannot record more than 254 chapters on one disc.<br>(The maximum is 254) | • You are trying to record onto the DVD+RW on which the number of recording chapters comes up to the maximum (254). | • Delete unnecessary chapter marks (page 73). |
| Recording Error<br>You cannot record on this disc as Control Information is full. | • This disc has no space to write the Control Information when recording or deleting contents. When editing has been repeatedly performed, the control Information area may come up to be full even the recording area has enough space. | • Delete unnecessary titles (pages 67-68). |
| Recording Error<br>You cannot record on this disc as Power Calibration Area is full. | • When recordings are performed repeatedly onto an unstable disc, this area may come up to be full.<br>• Every time you insert a disc for recording, the disc's working area will be taken up. And if you repeat this frequently, it will be used up sooner and you may not be able to record full 49 titles. | • Insert a new disc. |
| Recording Error<br>This disc is already finalized. | • You are trying to record onto the disc already finalized. | • Undo the finalizing for this disc (page 32). |
| Recording Error<br>The disc has no recording compatibility.<br>(Set "Make Recording Compatible" to "ON" to convert the disc menu.) | • You are trying to record onto the unfinalized +VR mode discs recorded on other unit. | • Set "Make Recording Compatible" to "ON" to rewrite the menu, after that you will record to disc (page 34). |

\* If you are still having trouble with the unit after checking "TROUBLESHOOTING", write down the error code and the error description for calling our help line to locate an Authorized Service Center.

## Frequently Asked Questions

– Can I record to CD-RW/-R?  No, this unit records only DVD.
– Can I play back DVD-video that is bought in another country?  Possible when the region code of the disc is 1 and All.
– Can I connect the unit to my PC?  No, you cannot control the unit by PC.
– Can I program a timer recording with cable/satellite box?  Yes, you can. Select "L1 (Rear)" or "L2 (Front)" as your recording channel, and leave the cable/satellite box on (pages 18, 26 and 38-41).

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# LANGUAGE CODE

| Language | Code | Language | Code | Language | Code |
|----------|------|----------|------|----------|------|
| Abkhazian | 4748 | Hungarian | 5467 | Russian | 6467 |
| Afar | 4747 | Icelandic | 5565 | Samoan | 6559 |
| Afrikaans | 4752 | Indonesian | 5560 | Sangho | 6553 |
| Albanian | 6563 | Interlingua | 5547 | Sanskrit | 6547 |
| Amharic | 4759 | Interlingue | 5551 | Scots Gaelic | 5350 |
| Arabic | 4764 | Inupiak | 5557 | Serbian | 6564 |
| Armenian | 5471 | Irish | 5347 | Serbo-Croatian | 6554 |
| Assamese | 4765 | Italian | 5566 | Sesotho | 6566 |
| Aymara | 4771 | Japanese | 5647 | Setswana | 6660 |
| Azerbaijani | 4772 | Javanese | 5669 | Shona | 6560 |
| Bashkir | 4847 | Kannada | 5760 | Sindhi | 6550 |
| Basque | 5167 | Kashmiri | 5765 | Singhalese | 6555 |
| Bengali;Bangla | 4860 | Kazakh | 5757 | Siswat | 6565 |
| Bhutani | 5072 | Kinyarwanda | 6469 | Slovak | 6557 |
| Bihari | 4854 | Kirghiz | 5771 | Slovenian | 6558 |
| Bislama | 4855 | Kirundi | 6460 | Somali | 6561 |
| Breton | 4864 | Korean | 5761 | Spanish | 5165 |
| Bulgarian | 4853 | Kurdish | 5767 | Sundanese | 6567 |
| Burmese | 5971 | Laothian | 5861 | Swahili | 6569 |
| Byelorussian | 4851 | Latin | 5847 | Swedish | 6568 |
| Cambodian | 5759 | Latvian; Lettish | 5868 | Tagalog | 6658 |
| Catalan | 4947 | Lingala | 5860 | Tajik | 6653 |
| Chinese | 7254 | Lithuanian | 5866 | Tamil | 6647 |
| Corsican | 4961 | Macedonian | 5957 | Tatar | 6666 |
| Croatian | 5464 | Malagasy | 5953 | Telugu | 6651 |
| Czech | 4965 | Malay | 5965 | Thai | 6654 |
| Danish | 5047 | Malayalam | 5958 | Tibetan | 4861 |
| Dutch | 6058 | Maltese | 5966 | Tigrinya | 6655 |
| English | 5160 | Maori | 5955 | Tonga | 6661 |
| Esperanto | 5161 | Marathi | 5964 | Tsonga | 6665 |
| Estonian | 5166 | Moldavian | 5961 | Turkish | 6664 |
| Faroese | 5261 | Mongolian | 5960 | Turkmen | 6657 |
| Fiji | 5256 | Nauru | 6047 | Twi | 6669 |
| Finnish | 5255 | Nepali | 6051 | Ukrainian | 6757 |
| French | 5264 | Norwegian | 6061 | Urdu | 6764 |
| Frisian | 5271 | Occitan | 6149 | Uzbek | 6772 |
| Galician | 5358 | Oriya | 6164 | Vietnamese | 6855 |
| Georgian | 5747 | Oromo (Afan) | 6159 | Volapuk | 6861 |
| German | 5051 | Panjabi | 6247 | Welsh | 4971 |
| Greek | 5158 | Pashto; Pushto | 6265 | Wolof | 6961 |
| Greenlandic | 5758 | Persian | 5247 | Xhosa | 7054 |
| Guarani | 5360 | Polish | 6258 | Yiddish | 5655 |
| Gujarati | 5367 | Portuguese | 6266 | Yoruba | 7161 |
| Hausa | 5447 | Quechua | 6367 | Zulu | 7267 |
| Hebrew | 5569 | Rhaeto-Romance | 6459 | | |
| Hindi | 5455 | Romanian | 6461 | | |

# GLOSSARY

### Analog Audio

An electrical signal that directly represents sound. Compare this to digital audio which can be an electrical signal, but is an indirect representation of sound. See also "Digital Audio".

### Aspect Ratio

The width of a TV screen relative to its height. Conventional TVs are 4:3 (in other words, the TV screen is almost square); widescreen models are 16:9 (the TV screen is almost twice as wide as it is high).

### Chapter

Just as a book is split up into several chapters, a title on a DVD is usually divided into chapters. See also "Title".

### Component Video Output

Each signal of luminance (Y) and component (P$_B$/C$_B$, P$_R$/C$_R$) is independent to output so that you can experience picture color as it is.
Also, due to compatibility with progressive video (480p), you can experience higher-density picture than that in interlace (480i).

### Digital Audio

An indirect representation of sound by numbers. During recording, the sound is measured at discrete intervals (44,100 times a second for CD audio) by an analog-to-digital converter, generating a stream of numbers. On playback, a digital-to-analog converter generates an analog signal based on these numbers. See also "Sampling Frequency" and "Analog Audio".

### Dolby® Digital

The system to compress digital sound developed by Dolby Laboratories. It offers you sound of stereo(2ch) or multi channel audio.

### DTS® (Digital Theater System)

DTS is a multi channel surround sound system. By connecting to DTS decoder you can enjoy dynamic and realistic sound like movie theatre. DTS surround sound technologies were developed by DTS, Inc.

### Finalize

To make DVD, which have been recorded on, possible to play back in DVD players.

### HDMI™ (high definition multimedia interface)

A digital interface between audio and video source. It can transmit component video, audio, and control signal with one cable connection.

### JPEG (joint photographic experts group)

JPEG is a method of compressing still image files. You can copy JPEG files on CD-RW/-R from a computer and play back the files on this unit.

### MP3 (MPEG audio layer 3)

MP3 is a method of compressing files. You can copy MP3 files on CD-RW/-R from the computer and play back the files on this unit.

### PCM (pulse code modulation)

The most common system of encoding digital audio, found on CD and DAT. Excellent quality, but requires a lot of data compared to formats such as Dolby Digital and MPEG audio. For compatibility with digital audio recorders (CD, MD and DAT) and AV amplifiers with digital inputs, this unit can convert Dolby Digital and MPEG audio to PCM. See also "Digital Audio".

### Progressive Scan (480p)

A type of display that does not split each frame into fields, and instead scans directly through all the scanlines of each frame in order. Progressive scan provides less flickering and higher image resolution than traditional (480i) TV signals. Refer to page 90 for instructions on selective progressive scan mode.

### Region Code

Regions associate discs and players with particular areas of the world. This unit will only play back discs that have compatible region codes. You can find the region code of your unit by looking on the rear panel. Some discs are compatible with more than one region (or all regions).

### Sampling Frequency

The rate which sound is measured by a specified interval to turn into digital audio data. The numbers of sampling in one second defines as sampling frequency. The higher the rate, the better the sound quality.

### S-Video Output

It delivers independently each signal of color(C) and luminance(Y) to TV as video signals, so that higher-quality picture will be gained.

### Title (DVD only)

A collection of chapters on DVD. See also "Chapter".

### Track

Audio CD use tracks to divide up the content of a disc. The DVD equivalent is called a chapter. See also "Chapter".

### Video mode

Video mode is the same recording format as used on the DVD videos you purchase in local shops. You can play back the discs recorded in this format in most DVD players, however it offers only limited editing. You will need to finalize discs recorded in video mode before playing them back on other unit.

### VR mode

A basic recording format for DVD-RW. VR mode offers advanced editing, however it is playable only on VR mode compatible unit. Finalization is recommended before playing them back on other unit.

### +VR mode

A recording format for DVD+RW/+R. +VR mode offers basic editing, and it is playable on most DVD players. Finalization is recommended before playing them back on other unit.

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# SPECIFICATIONS

• This model complies with the below specifications.
• Designs and specifications are subject to change without notice.
• This model may not be compatible with features and/or specifications that may be added in the future.

| General | |
|---|---|
| Power requirements | AC120 V, 60 Hz |
| Power consumption | 17 W (standby: 2.5 W) |
| Weight | 5.3 lbs ( 2.4 kg ) |
| Dimensions (width x height x depth) | 16.6" x 2.4" x 9.8" (420 x 59.0 x 247 mm) |
| Operating temperature | 41 °F to 104 °F (5 °C to 40 °C) |
| Operating humidity | Less than 80% (no condensation) |
| TV system | NTSC TV standard |

| Recording | |
|---|---|
| Recording format | VR (video recording) format<br>Video format<br>+VR format |
| Recording discs | DVD-Rewritable/-Recordable, DVD+Rewritable/+Recordable |
| **Video recording format**<br>Sampling frequency<br>Compression format | <br>13.5 MHz<br>MPEG |
| **Audio recording format**<br>Sampling frequency<br>Compression format | <br>48 kHz<br>Dolby Digital/LPCM (XP Recording mode only) |

| Input / Output | |
|---|---|
| **Video input**<br>Input level<br>Jacks | Input 1 (rear), 2 (front)<br>1 Vp-p (75Ω)<br>RCA jack |
| **Video output**<br>Output level<br>Jack | Output 1 (rear)<br>1 Vp-p (75Ω)<br>RCA jack |
| **S-video input**<br>Y (luminance) - Input level<br>C (color) - Input level<br>Jacks | Input 1 (rear), 2 (front)<br>1 Vp-p (75Ω)<br>286 mVp-p (75Ω)<br>4 pin mini DIN |
| **S-video output**<br>Y (luminance) - Output level<br>C (color) - Output level<br>Jack | Output 1 (rear)<br>1 Vp-p (75Ω)<br>286 mVp-p (75Ω)<br>4 pin mini DIN |
| **Component video output**<br>Output level<br>Jacks | Output 1 (rear)<br>Y: 1.0 Vp-p (75Ω), $P_B/C_B$, $P_R/C_R$: 0.7 Vp-p (75Ω)<br>RCA jacks |
| **HDMI output**<br>Jack | <br>HDMI jack |
| **Audio input**<br>During audio input<br>Jacks | Input 1 (rear), 2 (front) L/R<br>2 V rms (input impedance: more than 22 kΩ)<br>RCA jacks |
| **Audio output**<br>During audio output<br>Jacks | Output 1 L/R (rear)<br>2 V rms (output impedance: less than 1 kΩ)<br>RCA jacks |
| **Digital audio output**<br>Output level<br>Jack | Output 1 (rear) COAXIAL<br>500 mVp-p (75Ω)<br>RCA jack |
| **DV input**<br>Jack | IEEE 1394<br>DV input jack (4 pin) |

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# LIMITED WARRANTY

**Limited United States Warranty**
**Digital Audio Video ("DAV") Product - Exchange Warranty**

Toshiba America Consumer Products, L.L.C. ("TACP") makes the following limited warranties to original consumers in the United States.
THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS DAV PRODUCT AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.

DAV PRODUCTS PURCHASED IN THE U.S.A. AND USED ANYWHERE OUTSIDE OF THE U.S.A., INCLUDING, WITHOUT LIMITATION, CANADA AND MEXICO, ARE NOT COVERED BY THESE WARRANTIES.

DAV PRODUCTS PURCHASED ANYWHERE OUTSIDE OF THE U.S.A., INCLUDING, WITHOUT LIMITATION, CANADA AND MEXICO, AND USED IN THE U.S.A., ARE NOT COVERED BY THESE WARRANTIES.

## Limited Warranty

TACP warrants this DAV Product and its parts against defects in materials or workmanship for a period of ninety (90) days after the date of original retail purchase.
DURING THIS PERIOD, TACP WILL EXCHANGE A DEFECTIVE DAV PRODUCT WITH A NEW OR REFURBISHED DAV PRODUCT WITHOUT CHARGE TO YOU. DURING THE PERIOD THAT COMMENCES ON THE DATE THAT IS NINETY ONE (91) DAYS AFTER THE DATE OF ORIGINAL RETAIL PURCHASE AND ENDS ON THE DATE THAT IS THREE HUNDRED SIXTY FIVE (365) DAYS AFTER THE DATE OF ORIGINAL RETAIL PURCHASE, TACP WILL EXCHANGE A DEFECTIVE DAV PRODUCT WITH A NEW OR REFURBISHED DAV PRODUCT FOR A FEE.

## Rental Units

The warranty for DAV Product rental units begins on the date of the first rental or thirty (30) days after the date of shipment to the rental firm, whichever comes first.

## Commercial Units

DAV Products sold and used for commercial purposes have a limited warranty for all parts and labor, which warranty begins on the date of original retail purchase and ends on the date that is ninety (90) days thereafter.

## Owner's Manual and Product Registration Card

Read this owner's manual thoroughly before operating this DAV Product.

Complete and mail the enclosed product registration card or register your DAV Product on-line at www.tacp.toshiba.com/service as soon as possible. By registering your DAV Product you will enable TACP to bring you new products specifically designed to meet your needs and help us to contact you in the unlikely event a safety notification is required under the U.S. Consumer Product Safety Act. Failure to complete and return the product registration card does not diminish your warranty rights.

## Your Responsibility

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

(1) You must retain your bill of sale or provide other proof of purchase.

(2) All warranty servicing of this DAV Product must be made pursuant to the TACP DAV Product Warranty Exchange Program.

(3) The warranties from TACP are effective only if the DAV Product is purchased and operated in the Continental U.S.A. or Puerto Rico.

(4) Labor service charges for set installation, setup, adjustment of customer controls, and installation or repair of antenna systems are not covered by this warranty. Reception problems caused by inadequate antenna systems are your responsibility.

(5) Warranties extend only to defects in materials or workmanship as limited above, and do not extend to any DAV Product or parts that have been lost or discarded by you or to damage to the DAV Product or parts caused by fires, misuse, accident, Acts of God (such as lightning or fluctuations in electric power), improper installation, improper maintenance, or use in violation of instructions furnished by TACP; use or malfunction through simultaneous use of this DAV Product and connected equipment; or to units that have been modified or had the serial number removed, altered, defaced, or rendered illegible.

(6) This warranty does not cover Product sold AS IS or WITH ALL FAULTS.

## How to Obtain Warranty Services

If, after following all of the operating instructions in this manual and checking the section "TROUBLESHOOTING," you find that service is needed:

(1) For instructions on how to obtain warranty service for your DAV Product under the TACP DAV Product Warranty Exchange Program, contact TACP's Consumer Solutions Center toll free at 1-800-631-3811.

(2) You must include the original bill of sale (or a copy of the original bill of sale) or other proof of purchase along with the entire DAV Product when sending the DAV Product to the TACP Warranty Exchange Center specified by TACP's Consumer Solutions Center. You are responsible for all inbound transportation and insurance charges for the DAV Product to the TACP Warranty Exchange Center.

For additional information, visit TACP's website: www.tacp.toshiba.com

**ALL WARRANTIES IMPLIED BY THE LAW OF ANY STATE OF THE U.S.A., INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY LIMITED TO THE DURATION OF THE LIMITED WARRANTIES SET FORTH ABOVE. WITH THE EXCEPTION OF ANY WARRANTIES IMPLIED BY THE LAW OF ANY STATE OF THE U.S.A. AS HEREBY LIMITED, THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, AGREEMENTS, AND SIMILAR OBLIGATIONS OF TACP WITH RESPECT TO THE REPAIR OR REPLACEMENT OF ANY PARTS. IN NO EVENT SHALL TACP BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, BUSINESS INTERRUPTION, OR MODIFICATION OR ERASURE OF RECORDED DATA CAUSED BY USE, MISUSE OR INABILITY TO USE THIS DAV PRODUCT).**

No person, agent, distributor, dealer, or company is authorized to change, modify, or extend the terms of these warranties in any manner whatsoever. The time within which an action must be commenced to enforce any obligation of TACP arising under the warranty or under any statute or law of the United States or any state thereof is hereby limited to ninety (90) days from the date you discover, or should have discovered, the defect. This limitation does not apply to implied warranties arising under state law.

**THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE IN THE U.S.A. SOME STATES OF THE U.S.A. DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, WHEN AN ACTION MAY BE BROUGHT, OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE PROVISIONS MAY NOT APPLY TO YOU UNDER SUCH CIRCUMSTANCES.**

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# LIMITED WARRANTY

**Limited Canadian Warranty**
**For Toshiba Brand Digital Audio/Video Products**

Toshiba of Canada Limited ("TCL") makes the following limited warranties to original consumers in Canada. **THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS TOSHIBA BRAND DIGITAL AUDIO/VIDEO PRODUCT (the "DAV PRODUCT(S)" or "DAV Product(s)") AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.**

**DAV PRODUCTS PURCHASED IN CANADA, AND USED ANYWHERE OUTSIDE OF CANADA INCLUDING, WITHOUT LIMITATION, THE UNITED STATES AND MEXICO, ARE NOT COVERED BY THESE WARRANTIES.**

**DAV PRODUCTS PURCHASED ANYWHERE OUTSIDE OF CANADA, INCLUDING, WITHOUT LIMITATION, THE UNITED STATES AND MEXICO, AND USED IN CANADA, ARE NOT COVERED BY THESE WARRANTIES.**

**Limited One (1) Year Warranty on Parts and Labour**

Subject to the more limited warranty if the DAV Product is used for any commercial or business purposes as set out below, TCL warrants the DAV Product and its parts against material defects in materials or workmanship that result in the DAV Product failing for a period of one (1) year after the date of original retail purchase. **DURING THIS PERIOD, TCL WILL, AT TCL'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART, WITHOUT CHARGE TO YOU FOR PARTS OR LABOUR. YOU MUST DELIVER THE ENTIRE DAV PRODUCT TO A TCL DAV PRODUCT AUTHORIZED SERVICE PROVIDER ("ASP"). YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE DAV PRODUCT TO AND FROM THE ASP.**

**Rental Units**

The warranty for DAV Product rental units begins with the date of first rental or thirty (30) days from the date of shipment to the rental firm, whichever comes first.

**Limited Warranty for Commercial Units**

TCL warrants DAV Products that are used for any commercial or business purposes as follows: all parts are warranted against material defects in materials or workmanship that result in the DAV Product failing for a period of ninety (90) days after the date of original retail purchase. **DURING THIS PERIOD, TCL WILL, AT TCL'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART, WITHOUT CHARGE TO YOU FOR PARTS OR LABOUR. YOU MUST DELIVER THE ENTIRE DAV PRODUCT TO AN ASP. YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE DAV PRODUCT TO AND FROM THE ASP.**

**Your Responsibility**

**THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:**

(1) You must provide your bill of sale or other proof of purchase.
(2) All warranty servicing of this DAV Product must be performed by an ASP.
(3) The warranties from TCL are effective only if the DAV Product is (i) purchased as new and unopened from TCL or from TCL's authorized distributors, dealers or resellers ("**ADR's**") and (ii) located/operated in Canada.
(4) Warranties extend only to material defects in materials or workmanship as limited above, and do not extend to:
   a. Service, repairs or replacement made necessary by accident, misuse, abuse, moisture, liquids, dust, dirt, neglect, accident, damage, 24/7 applications, improper installation, improper operation, improper cleaning, improper maintenance, normal wear and tear, or any other external cause or event, act or omission outside the control of TCL, including fire, theft, acts of God, alteration, power failures, power surges or power shortages, lightning, other electrical faults, or repairs, modifications or replacements by persons other than those authorized by TCL to service the DAV Product;
   b. Replacement of missing, discarded or lost parts, the provision of retrofits, or preventive maintenance;

   c. Repair of damage that is cosmetic only or does not affect the DAV Product functionality, such as wear and tear, scratches and dents;
   d. Service on Toshiba-branded accessory items (such accessory items may be covered by their own warranty);
   e. Service on third party products or service made necessary by use of incompatible third party products;
   f. Service made necessary by the simultaneous use of this DAV Product and connected equipment;
   g. Modifications to the DAV Product not approved in writing by TCL, and service made necessary by the use or installation of non-Toshiba modifications to the DAV Product;
   h. Service of a DAV Product on which the TOSHIBA label or logo, rating label or serial number have been defaced or removed;
   i. On-site service and repair of the DAV Product;
   j. Damage to the DAV Product caused by failure to follow the specifications, User manuals or guides as to usage and/or storage.

**Disclaimer and Limitation of Remedy**

**TO THE EXTENT NOT PRECLUDED BY LAW, ALL OTHER EXPRESS AND IMPLIED WARRANTIES, CONDITIONS AND REPRESENTATIONS FOR THIS DAV PRODUCT, INCLUDING THE IMPLIED WARRANTIES AND CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY DISCLAIMED AND EXCLUDED. IF THE APPLICABLE LAW, STATUTORY OR OTHERWISE, PRECLUDES THE EXCLUSION OF ANY IMPLIED WARRANTIES, CONDITIONS AND REPRESENTATIONS THEN SUCH IMPLIED WARRANTIES, CONDITIONS AND REPRESENTATIONS ARE OTHERWISE LIMITED IN DURATION TO THE TERM OF THIS EXPRESS WRITTEN LIMITED WARRANTY. TO THE EXTENT NOT PRECLUDED BY LAW, STATUTORY OR OTHERWISE, THIS WRITTEN WARRANTY SUPERCEDES AND SPECIFICALLY DISCLAIMS ANY OTHER WARRANTY, CONDITION OR REPRESENTATION NOT STATED IN THIS WARRANTY, WHETHER MADE BY TCL, TOSHIBA CORPORATION, THEIR AFFILIATES, ADRs AND ASPs AND WHETHER MADE ORALLY OR IN WRITING (INCLUDING ANY STATEMENT IN ANY BROCHURE, PRESS RELEASE, ANNOUNCEMENT, ADVERTISEMENT, POINT OF SALE DISPLAY, ETC.).**

YOU MUST READ AND FOLLOW ALL SET-UP AND USAGE INSTRUCTIONS IN THE APPLICABLE USER GUIDES AND/OR MANUALS. IF YOU FAIL TO DO SO, THIS DAV PRODUCT MAY NOT FUNCTION PROPERLY AND YOU MAY SUFFER DAMAGE. THIS WARRANTY WILL NOT COVER ANY SERVICE THAT IS REQUIRED, IN PART OR IN WHOLE, AS A RESULT OF ANY FAILURE TO FOLLOW THE SET-UP AND USAGE INSTRUCTIONS. THIS WARRANTY DOES NOT APPLY AND SHALL BE VOID AND UNENFORCEABLE IF THE DAV PRODUCT IS OPENED, SERVICED, OR REPAIRED BY PERSONS OTHER THAN THOSE AUTHORIZED BY TCL TO SERVICE OR REPAIR THE DAV PRODUCT.

# LIMITED WARRANTY

IF THE DAV PRODUCT FAILS TO WORK AS WARRANTED ABOVE, YOUR SOLE AND EXCLUSIVE REMEDY SHALL BE REPAIR OR REPLACEMENT OF THE DEFECTIVE PART. IN NO EVENT WILL TCL, TOSHIBA CORPORATION, THEIR AFFILIATES, ADRs OR ASPs (THE " RELATED PARTIES" ) BE LIABLE TO YOU OR ANY THIRD PARTY FOR ANY DAMAGES, MONEY, REIMBURSEMENT, COSTS OR EXPENSES. THIS LIMITATION APPLIES TO DAMAGES, MONEY, REIMBURSEMENT, COSTS OR EXPENSES OF ANY KIND WHATSOEVER INCLUDING ANY DIRECT OR INDIRECT DAMAGES, DAMAGE TO PROPERTY OR PERSON, LOST PROFITS, LOST SAVINGS, INCONVENIENCE OR OTHER SPECIAL, INCIDENTAL, EXEMPLARY OR CONSEQUENTIAL DAMAGES, WHETHER FOR BREACH OF WARRANTY, BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE), UNDER A STATUTE OR UNDER ANY OTHER LAW OR FORM OR ACTION, OR WHETHER ARISING OUT OF THE USE OF OR INABILITY TO USE THE DAV PRODUCT, EVEN IF ANY OF THE RELATED PARTIES HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR OF ANY CLAIM BY ANY OTHER PARTY.

No person, agent, distributor, dealer or company is authorized to change, modify or extend the terms of these warranties in any manner whatsoever.

### Arbitration and Dispute Resolution

To the extent not precluded by law, any claim, dispute, controversy or disagreement (whether for breach of warranty, breach of contract, tort (including negligence), under a statute or under any other law or form of action) against any of the Related Parties arising out of, or otherwise relating to: (i) this warranty; (ii) the DAV Product; (iii) any oral or written representations, statements, brochures, press releases, advertising, announcement, point of sale display, or promotional material relating to the DAV Product; (iv) the relationships that result from this warranty, (the foregoing claims, disputes controversies and disagreements are collectively referred to as the "Dispute"), shall be referred to and resolved by final and binding arbitration (to the exclusion of the courts). To the extent not precluded by law, you agree to waive any right that you may have to commence or participate in any representative or class proceeding against the Related Parties relating to any Dispute. If and where applicable and to the extent not precluded by law, you further agree to opt out of any such representative or class proceedings. Arbitration of any Dispute will be conducted in the forum and in the manner as agreed to between you and TCL. Failing such agreement, the arbitration will be conducted by one arbitrator pursuant to the laws and rules relating to arbitration generally in force in the jurisdiction in which you reside at the time that the Dispute arises. To the extent not precluded by law, no claim, dispute, controversy or disagreement of any other person may be joined or combined with any Dispute by you, without the prior written consent of TCL.

### Critical Applications

The DAV Product you have purchased is not designed for any "critical applications." "Critical applications" means life support systems, medical applications, connections to implanted medical devices, commercial transportation, nuclear facilities or systems or any other applications where DAV Product failure could lead to injury to persons or loss of life or catastrophic property damage.

IF THE CUSTOMER USES THE DAV PRODUCT IN ANY CRITICAL APPLICATION, THE CUSTOMER – AND NOT TCL, ITS AFFILIATES, ADRs OR ASPs – ASSUME SOLE AND FULL RESPONSIBILITY FOR SUCH USE. TCL RESERVES THE RIGHT TO REFUSE TO SERVICE ANY DAV PRODUCT USED IN A CRITICAL APPLICATION. TCL, ITS AFFILIATES, ADRs AND ASPs HEREBY DISCLAIM ANY AND ALL LIABILITY, DAMAGES AND CONSEQUENCES ARISING OUT OF THE SERVICE OR REFUSAL TO SERVICE SUCH DAV PRODUCT AND FURTHER DISCLAIM ANY AND ALL LIABILITY, CONSEQUENCES AND DAMAGES THAT MAY ARISE OR RESULT FROM THE USE OF THE DAV PRODUCT IN ANY CRITICAL APPLICATIONS.

### General Provisions

If and to the extent that any provision of this limited warranty should generally be found to be unenforceable, the unenforceable provision shall be severed from the warranty and deemed not to form part of the warranty. The remaining provisions of this warranty shall be and remain valid and enforceable. If and to the extent that any provision of this limited warranty as it relates to any of the Related Parties is found to be invalid or unenforceable in respect of that party (the "Excluded Party" ), the Excluded Party shall be deemed to be severed or excluded from the provision, and the provision shall remain valid, enforceable and applicable in respect of the other or remaining Related Parties.

To the extent permitted by law, this limited warranty shall be governed and construed in accordance with the laws of Ontario.

If there is any inconsistency between this limited warranty, on the one hand, and any statement in the packaging of the DAV Product or in any other document enclosed with, or used in the context of the promotion or sale of, the DAV Product, on the other hand, the provisions of this limited warranty shall prevail.

### How to Obtain Warranty Services

If, after following all of the operating instructions in this manual and checking the "Troubleshooting" section, you find that service is needed:

(1)  To find the nearest ASP, visit TCL's web site at www.toshiba.ca, or call toll free 1-800-268-3404.
(2)  Present your bill of sale or other proof of purchase to the ASP.

For additional information, visit TCL's website at www.toshiba.ca

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